

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT



APPLICATION FOR PERMIT TO DRILL						1. WELL NAME and NUMBER Matern Trust 4-21C4					
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT ALTAMONT					
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME					
6. NAME OF OPERATOR EP ENERGY E&P COMPANY, L.P.						7. OPERATOR PHONE 713 997-5038					
8. ADDRESS OF OPERATOR 1001 Louisiana, Houston, TX, 77002						9. OPERATOR E-MAIL maria.gomez@epenergy.com					
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) Fee			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>					
13. NAME OF SURFACE OWNER (if box 12 = 'fee') Walter E.W. Matern Revocable Living Trust						14. SURFACE OWNER PHONE (if box 12 = 'fee') 8015749875					
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') 8066 Pleasant Green Drive, Magna, UT 84044						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')					
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>			19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>					
20. LOCATION OF WELL		FOOTAGES		QTR-QTR	SECTION	TOWNSHIP		RANGE	MERIDIAN		
LOCATION AT SURFACE		1707 FSL 1907 FWL		NESW	21	3.0 S		4.0 W	U		
Top of Uppermost Producing Zone		1500 FSL 1400 FWL		NESW	21	3.0 S		4.0 W	U		
At Total Depth		1500 FSL 1400 FWL		NESW	21	3.0 S		4.0 W	U		
21. COUNTY DUCHESNE			22. DISTANCE TO NEAREST LEASE LINE (Feet) 1400			23. NUMBER OF ACRES IN DRILLING UNIT 640					
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 2100			26. PROPOSED DEPTH MD: 11922 TVD: 11900					
27. ELEVATION - GROUND LEVEL 5862			28. BOND NUMBER 400JU0708			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Duchesne City					
Hole, Casing, and Cement Information											
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight	
COND	17.5	13.375	0 - 600	54.5	J-55 ST&C	8.8	Class G	758	1.15	15.8	
SURF	12.25	9.625	0 - 1700	40.0	N-80 LT&C	9.3	Unknown	173	3.16	11.0	
							Unknown	195	1.3	14.3	
I1	8.75	7	0 - 8722	29.0	HCP-110 LT&C	10.0	Unknown	397	2.31	12.0	
							Unknown	202	1.64	13.0	
L1	6.125	5	8522 - 11922	18.0	HCP-110 LT&C	12.0	Unknown	201	1.47	14.2	
ATTACHMENTS											
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES											
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN						
<input checked="" type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER						
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP						
NAME Maria S. Gomez			TITLE Principal Regulatory Analyst			PHONE 713 997-5038					
SIGNATURE			DATE 02/05/2014			EMAIL maria.gomez@epenergy.com					
API NUMBER ASSIGNED 43013528410000			APPROVAL <div style="text-align: center;"> Permit Manager </div>								

RECEIVED: March 31, 2014

**Matern Trust 4-21C4
Sec. 21, T3S, R4W
DUCHESNE COUNTY, UT**

EP ENERGY E&P COMPANY, L.P.

DRILLING PROGRAM

1. Estimated Tops of Important Geologic Markers

<u>Formation</u>	<u>Depth</u>
Green River (GRRV)	3,929' TVD
Green River (GRTN1)	4,629' TVD
Mahogany Bench	5,479' TVD
L. Green River	6,779' TVD
Wasatch	8,629' TVD
T.D. (Permit)	11,900' TVD / 11,922' MD

2. Estimated Depths of Anticipated Water, Oil, Gas or Mineral Formations:

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
	Green River (GRRV)	3,936' MD / 3,929' TVD
	Green River (GRTN1)	4,638' MD / 4,629' TVD
	Mahogany Bench	5,491' MD / 5,479' TVD
Oil	L. Green River	6,795' MD / 6,779' TVD
Oil	Wasatch	8,651' MD / 8,629' TVD

3. Pressure Control Equipment: (Schematic Attached)

A 4.5" by 20.0" rotating head on structural pipe from surface to 600' MD/TVD. A 4.5" by 13-3/8" Smith Rotating Head (Diverter System) from 600' MD/TVD to 1,700' MD/TVD on Conductor. A 10M BOP stack w/ rotating head, spacer spool, 5M annular, flex rams, blind rams & single w/ flex rams from 1,700' MD/TVD to 8,722' MD/ 8,700' TVD. A 10M BOP stack w/ rotating head, spacer spool, 5M annular, flex rams, blind rams & single w/ flex rams from 8,722' MD/ 8,700' TVD to TD (11,922' MD / 11,900' TVD).

The BOPE and related equipment will meet the requirements of the 5M and 10M system.

OPERATORS MINIMUM SPECIFICATIONS FOR BOPE:

The surface casing will be equipped with a flanged casing head of 5M psi working pressure. An 11" 5M x 11" 10M spool, 11" x 10M psi BOP and 5M psi annular will be nipped up on the surface casing and tested to 250 psi low test / 3,000 psi high test for 10 minutes each prior to drilling out. The surface casing

will be tested to 1,000 psi. for 30 mins. Intermediate casing will be tested to the greater of 1,500 psi or 0.22 psi/ft. The choke manifold equipment, upper Kelly cock and floor safety valves will be tested to 5M psi. The annular preventer will be tested to 250 psi low test / 4,000 psi high test. The 10M BOP will be installed with rotating head, spacer spool, 5M annular, flex rams, blind rams & single w/ flex rams from surface shoe to TD. The BOPE will be hydraulically operated.

In addition, the BOP equipment will be tested after running intermediate casing, after any repairs to the equipment and at least once every 30 days. Pipe and blind rams will be activated on each trip, annular preventer will be activated weekly and weekly BOP drills will be held with each crew.

Statement on Accumulator System and Location of Hydraulic Controls:

Precision Rig # 406 is expected to be used to drill the proposed well. Operations will commence after approval of this application. Manual and/or hydraulic controls will be in compliance with 5M and 10M psi systems.

Auxiliary Equipment:

- A) Pason Gas Monitoring 600' - TD
- B) Mud logger with gas monitor – 1,700' to TD
- C) Choke manifold with one manual and one hydraulic operated choke
- D) Full opening floor valve with drill pipe thread
- E) Upper and lower Kelly cock
- F) Shaker, de-sander and centrifuge

4. Proposed Casing & Cementing Program:

Please refer to the attached Wellbore Diagram.

All casing will meet or exceed the following design safety factors:

- Burst = 1.00
- Collapse = 1.125
- Tension = 1.2 (including 100k# overpull)

Cement design calculations for intermediate and production hole will be based on minimum 10% excess over gauge hole volumes. Actual volumes pumped will be a minimum of 10% excess over caliper volume to designed tops of cement for any section logged. A minimum of 50% excess over gauge volume will be pumped on surface casing.

5. Drilling Fluids Program:

Proposed Mud Program:

Interval	Type	Mud Weight
Surface	WBM	8.8 – 9.3
Intermediate	WBM	9.3 – 10.0
Production	WBM	10.0 – 12.0

Anticipated mud weights are based on actual offset well bottom-hole pressure data. Mud weights utilized may be somewhat higher to allow for trip margin and to provide hole stability for running logs and casing.

Visual mud monitoring equipment will be utilized.

6. **Evaluation Program:**

Logs:

Mud Log: 1,700' MD/TVD – TD

Open Hole Logs: Gamma Ray, Neutron-Density, Resistivity, Sonic, from surface casing shoe to TD.

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 11,900' TVD equals approximately 7,426 psi. This is calculated based on a 0.624 psi/ft gradient (12.0 ppg mud density at TD).

Maximum anticipated surface pressure equals approximately 4,808 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/ft).

Maximum anticipated surface pressure based on frac gradient at 7" casing shoe is 0.8 psi/ft at 8,700' TVD = 6,960 psi

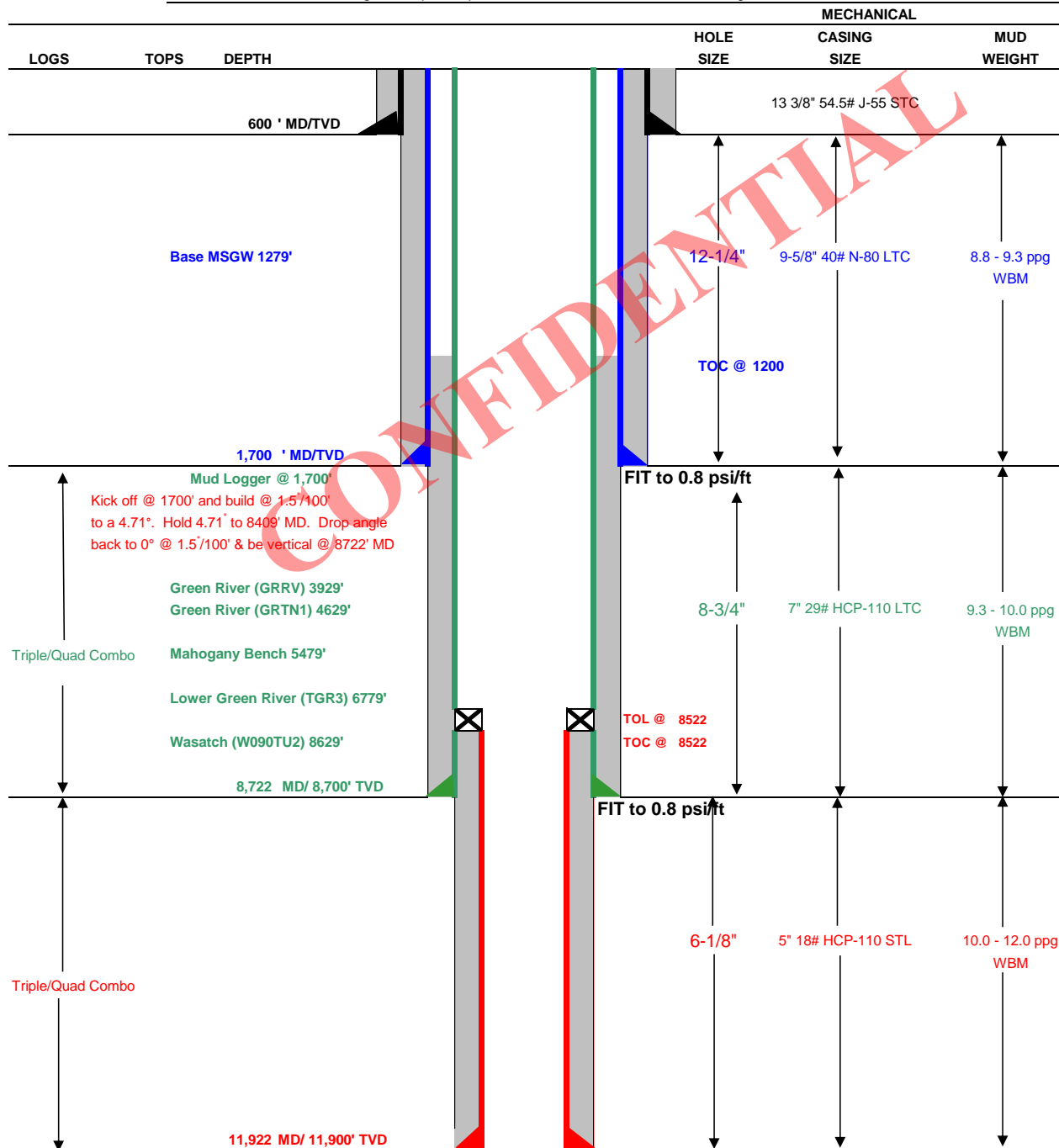
BOPE and casing design will be based on the lesser of the two MASPs which is 4,808 psi.

8. **OPERATOR REQUESTS THAT THE PROPOSED WELL BE PLACED ON CONFIDENTIAL STATUS.**



Drilling Schematic

Company Name: EP ENERGY	Date: March 27, 2014
Well Name: Matern Trust 4-21C4	TD: 11,922
Field, County, State: Altamont, Duchesne, Utah	AFE #: TBD
Surface Location: Sec 21 T3S R4W 1707' FSL 1907' FWL	BHL: Sec 21 T3S R4W 1500' FSL 1400' FWL
Objective Zone(s): Green River, Wasatch	Elevation: 5862.3
Rig: Precision 406	Spud (est.): TBD
BOPE Info: 4.5 x 13 3/8 Diverter System w/ rotating head from 600' to 1,700' 11 10M BOPE w/ rotating head & 5M annular from 1,700' to 8,722' 11 10M BOPE w/ rotating head, spacer spool, 5M annular, flex rams, blind rams, single w/ flex rams from 8,722' to TD	



DRILLING PROGRAM

CASING PROGRAM	SIZE	INTERVAL		WT.	GR.	CPLG.	BURST	COLLAPSE	TENSION
CONDUCTOR	13 3/8"	0	600	54.5	J-55	STC	2,740	1,130	514
SURFACE	9-5/8"	0	1700	40.00	N-80	LTC	5,750	3,090	737
INTERMEDIATE	7"	0	8722	29.00	HCP-110	LTC	11,220	9,750	797
PRODUCTION LINER	5'	8522	11922	18.00	HCP-110	STL	13,940	15,450	495

CEMENT PROGRAM		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
CONDUCTOR		600	Class G + 3% CACL2	758	100%	15.8 ppg	1.15
SURFACE	Lead	1,200	EXTENDACEM SYSTEM: 5 lbm/sk Silicalite Compacted + 0.25 lbm/sk Kwik Seal + 0.125 lbm/sk Poly-E-Flake + 2% Bentonite	173	75%	11.0 ppg	3.16
	Tail	500	HALCEM SYSTEM: 3 lbm/sk Silicalite Compacted + 1% Salt + 0.3% Econolite + 0.25 lbm/sk Poly-E-Flake + 0.25 lbm/sk Kwik Seal + 0.5% HR-5	195	50%	14.3 ppg	1.30
INTERMEDIATE	Lead	5,572	EXTENDACEM SYSTEM: Type G Cement + 10% Bentonite + 0.1% SA-1015 + 0.2% Econolite + 0.2% Halad-322 + 3 lbm/sk Silicalite Compacted + 1 lbm/sk Granulite TR 1/4 + 0.125 lbm/sk Poly-E-Flake + 5 lbm/sk Kol-Seal + 0.8% HR-5	397	10%	12.0 ppg	2.31
	Tail	1,950	EXPANDACEM SYSTEM: Type G Cement + 0.25 lbm/sk Poly-E-Flake + 4% Bentonite + 0.1% Halad-413 + 5 lb/sk Silicalite + 0.15 SA-1015	202	10%	13.0 ppg	1.64
PRODUCTION LINER		3,400	EXTENDACEM SYSTEM: 0.3% Super CBL + 0.1% SA-1015 + 0.3% Halad(R)-413 + 0.5% SCR-100 + 0.125 lbm/sk Poly-E-Flake + 3 lbm/sk Silicalite Compacted + 20% SSA-1	201	25%	14.20	1.47

FLOAT EQUIPMENT & CENTRALIZERS	
CONDUCTOR	PDC drillable guide shoe, 1 joint, PDC drillable float collar. Thread lock all float equipment. Install bow spring centralizers on the bottom 3 joints of casing.
SURFACE	PDC drillable guide shoe, 1 joint casing, PDC drillable float collar & Stage collar. Thread lock all float equipment. Install bow spring centralizers on the bottom 3 joints of casing & every 3rd joint thereafter.
INTERMEDIATE	PDC drillable 10M, P-110 float shoe, 1 joint, PDC drillable 10M, P-110 float collar. Thread lock all float equipment. Maker joint at 6,700'.
LINER	Float shoe, 1 joint, float collar, 1 joint, landing collar. Thread lock all FE. Maker joints every 1000'.

PROJECT ENGINEER(S): Brad Macafee 713-997-6383

MANAGER: Bob Dodd

EP ENERGY E&P COMPANY, L.P.
MATERN TRUST 4-21C4
SECTION 21, T3S, R4W, U.S.B.&M.

PROCEED NORTH ON STATE ROAD 87 FROM THE INTERSECTION OF STATE ROAD 87 WITH US HIGHWAY 40 IN DUCHESNE, UTAH APPROXIMATELY 3.54 MILES TO AN INTERSECTION;

TURN RIGHT AND TRAVEL EASTERLY ON A COUNTY B ROAD 2.62 MILES TO AN INTERSECTION;

TURN RIGHT AND TRAVEL SOUTHERLY ON AN EXISTING GRAVEL ROAD 0.61 MILES TO THE BEGINNING OF THE ACCESS ROAD;

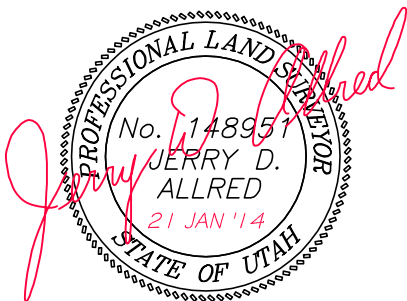
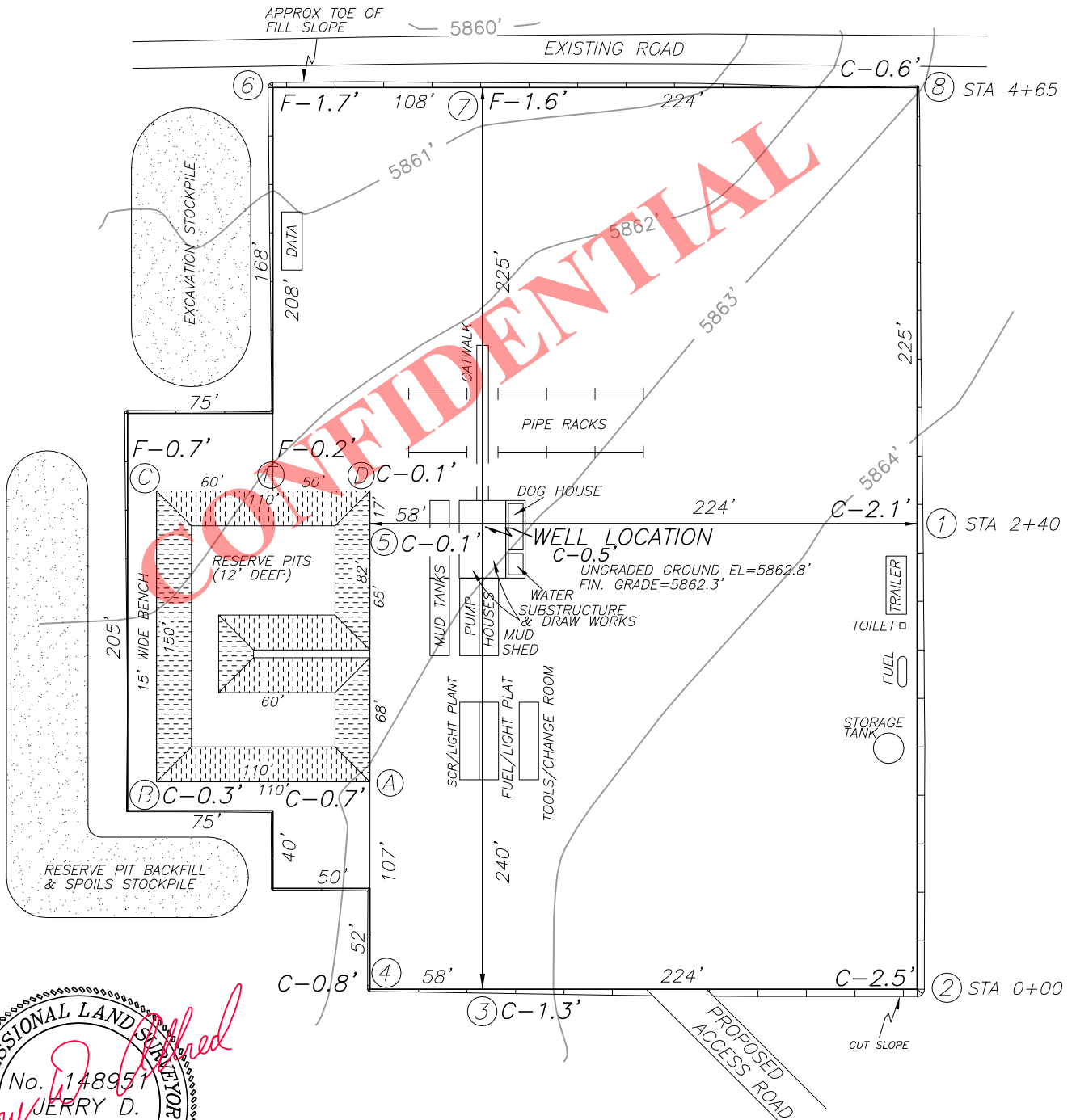
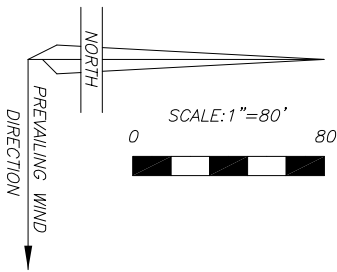
TURN RIGHT AND FOLLOW ROAD FLAGS WESTERLY 0.10 MILES TO THE PROPOSED LOCATION;

TOTAL DISTANCE FROM DUCHESNE, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 6.87 MILES.

CONFIDENTIAL

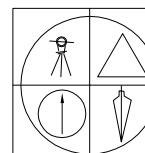
EP ENERGY E&P COMPANY, L.P.**FIGURE #1**

LOCATION LAYOUT FOR
MATERN TRUST 4-21C4
SECTION 21, T3S, R4W, U.S.B.&M.
1707' FSL, 1907' FWL



21 JAN 2014

01-128-497



JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

1235 NORTH 700 EAST--P.O. BOX 975
DUCHESENE, UTAH 84021
(435) 738-5352

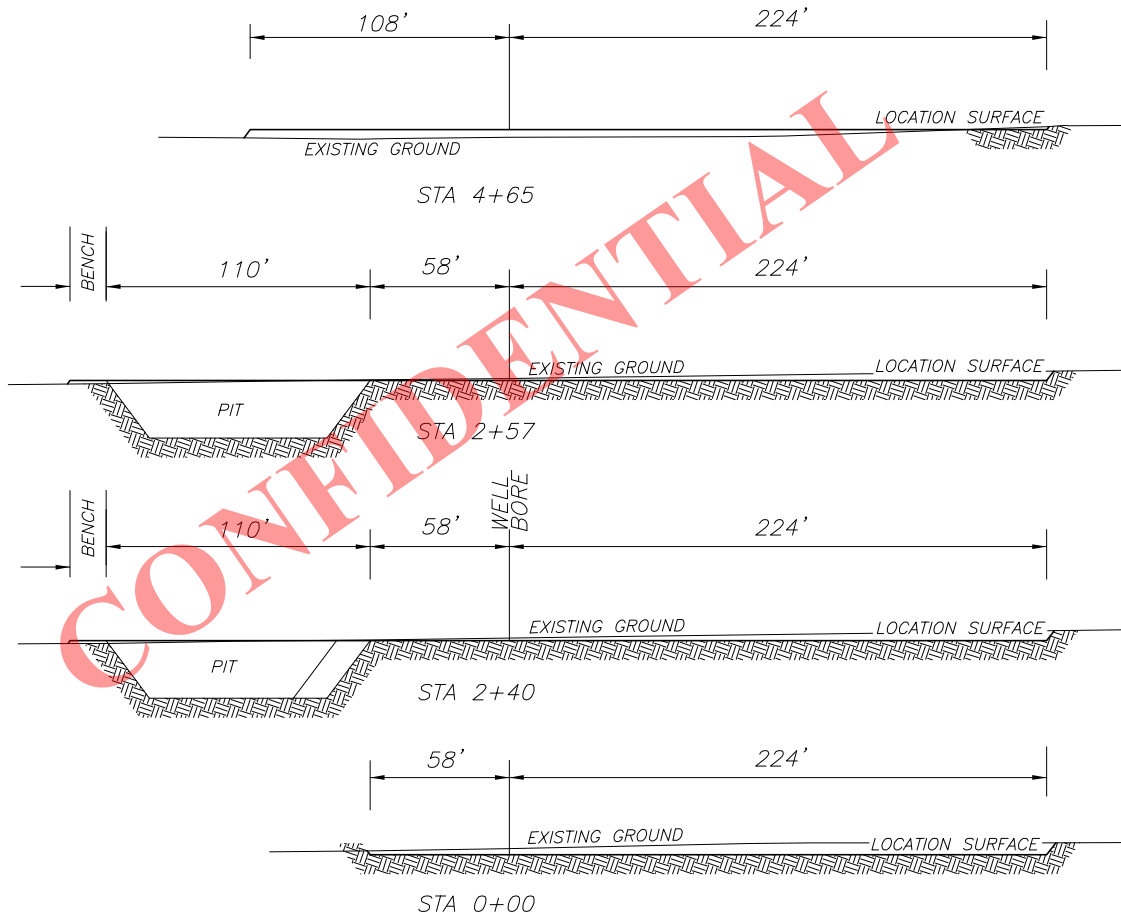
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EP ENERGY E&P COMPANY, L.P.**FIGURE #2**

LOCATION LAYOUT FOR
MATERN TRUST 4-21C4
SECTION 21, T3S, R4W, U.S.B.&M.
1707' FSL, 1907' FWL

1"=40'
X-SECTION
SCALE
1"=80'

NOTE: ALL CUT/FILL
SLOPES ARE 1½:1
UNLESS OTHERWISE
NOTED



APPROXIMATE YARDAGES

TOTAL CUT (INCLUDING PIT) = 16,521 CU. YDS.

PIT CUT = 4955 CU. YDS.

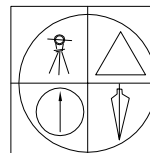
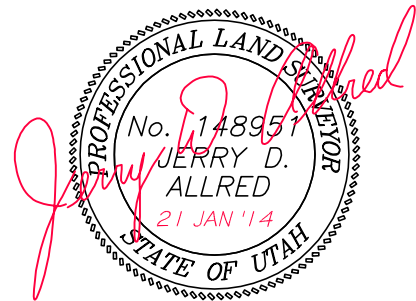
TOPSOIL STRIPPING: (6") = 3160 CU. YDS.

REMAINING LOCATION CUT = 8406 CU. YDS

TOTAL FILL = 2241 CU. YDS.

LOCATION SURFACE GRAVEL=1653 CU. YDS. (4" DEEP)

ACCESS ROAD GRAVEL=138 CU. YDS.



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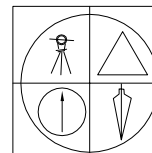
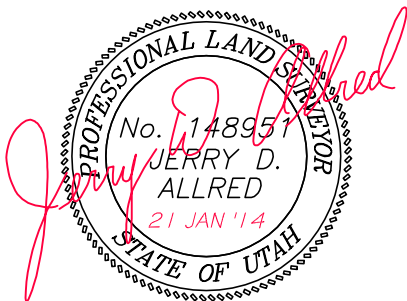
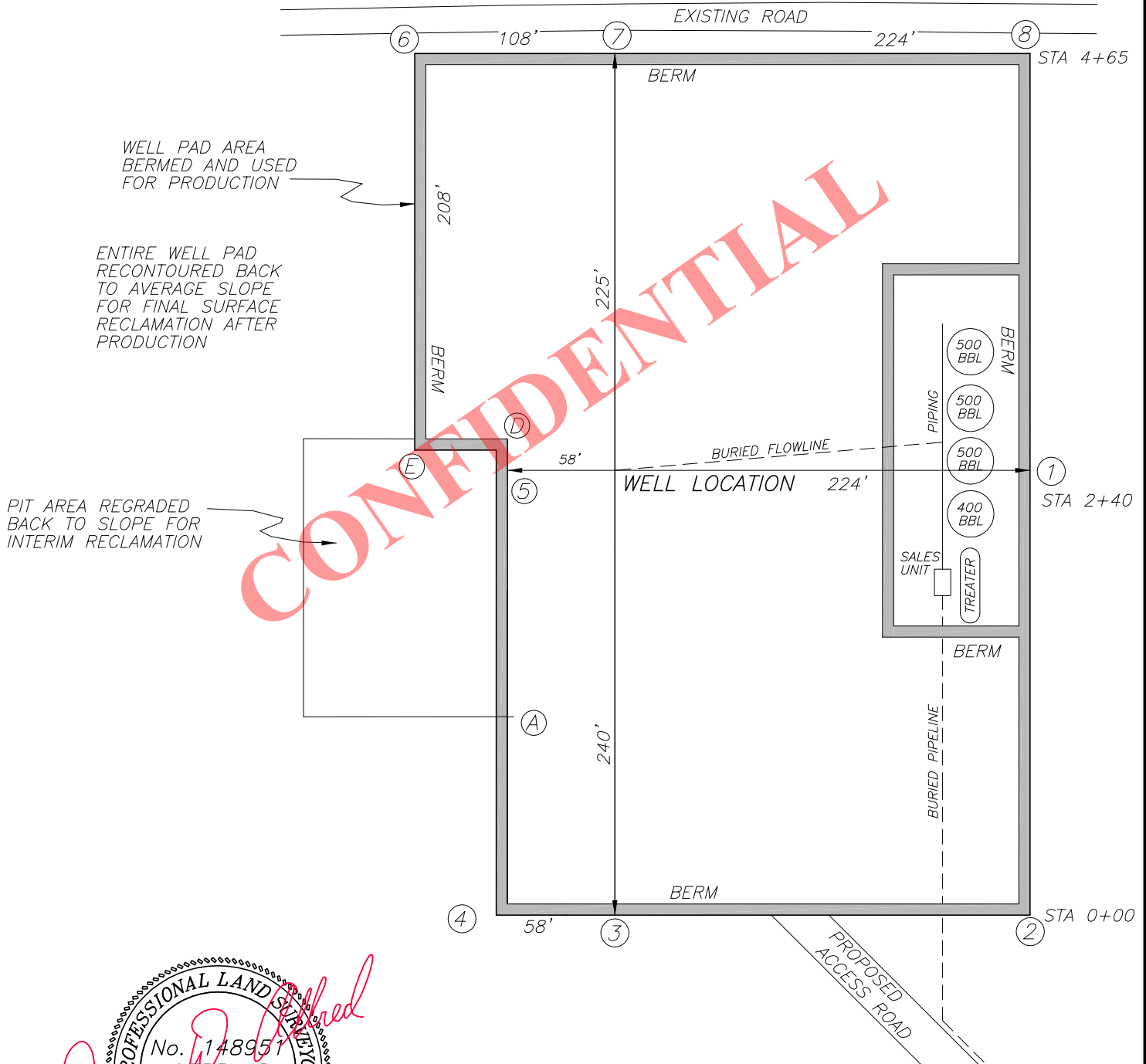
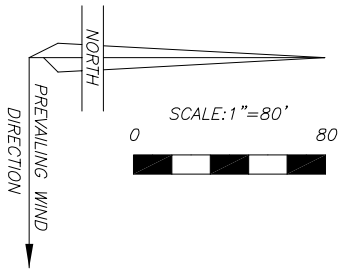
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EP ENERGY E&P COMPANY, L.P.**FIGURE #3**

LOCATION LAYOUT FOR
MATERN TRUST 4-21C4
SECTION 21, T3S, R4W, U.S.B.&M.
1707' FSL, 1907' FWL



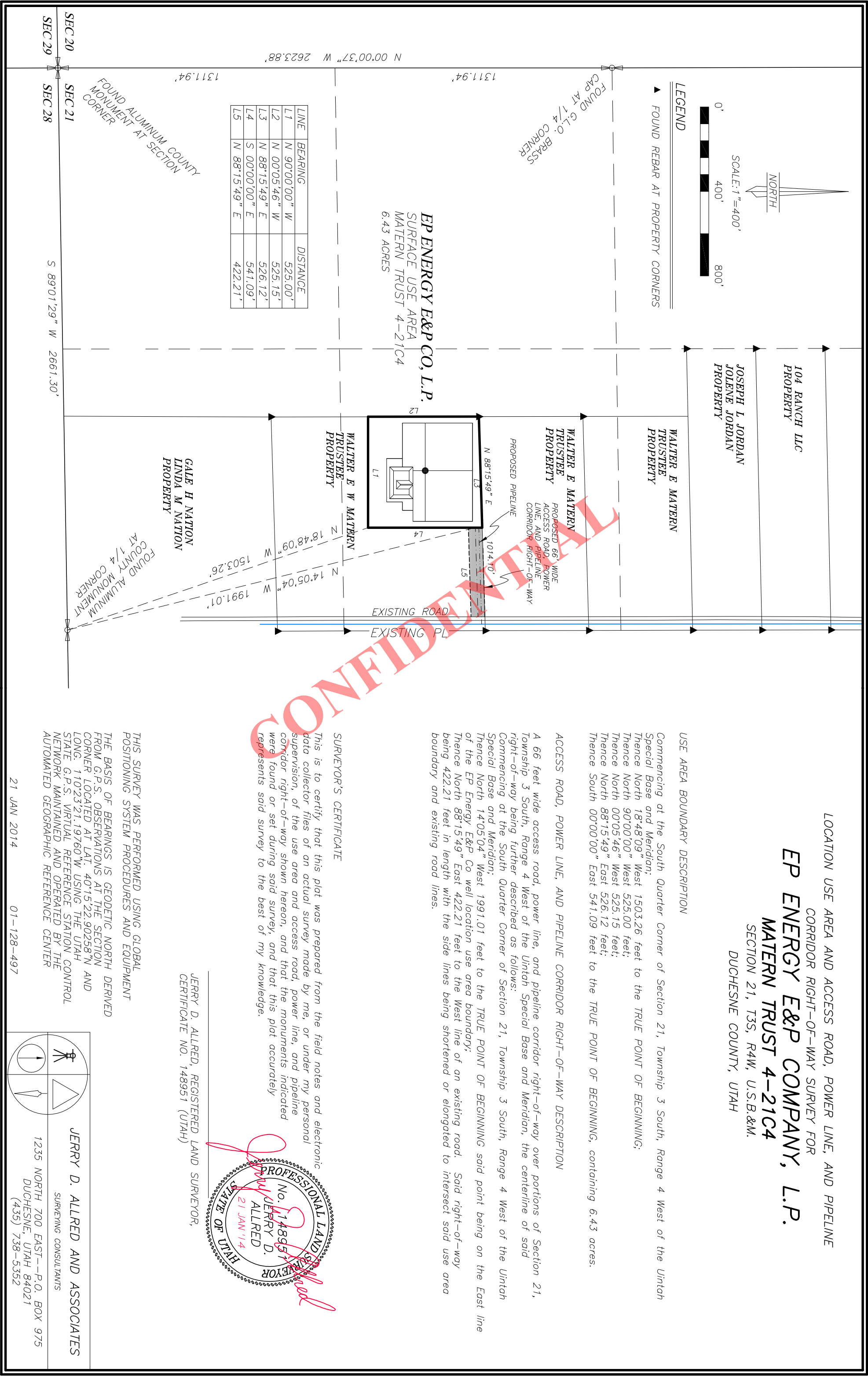
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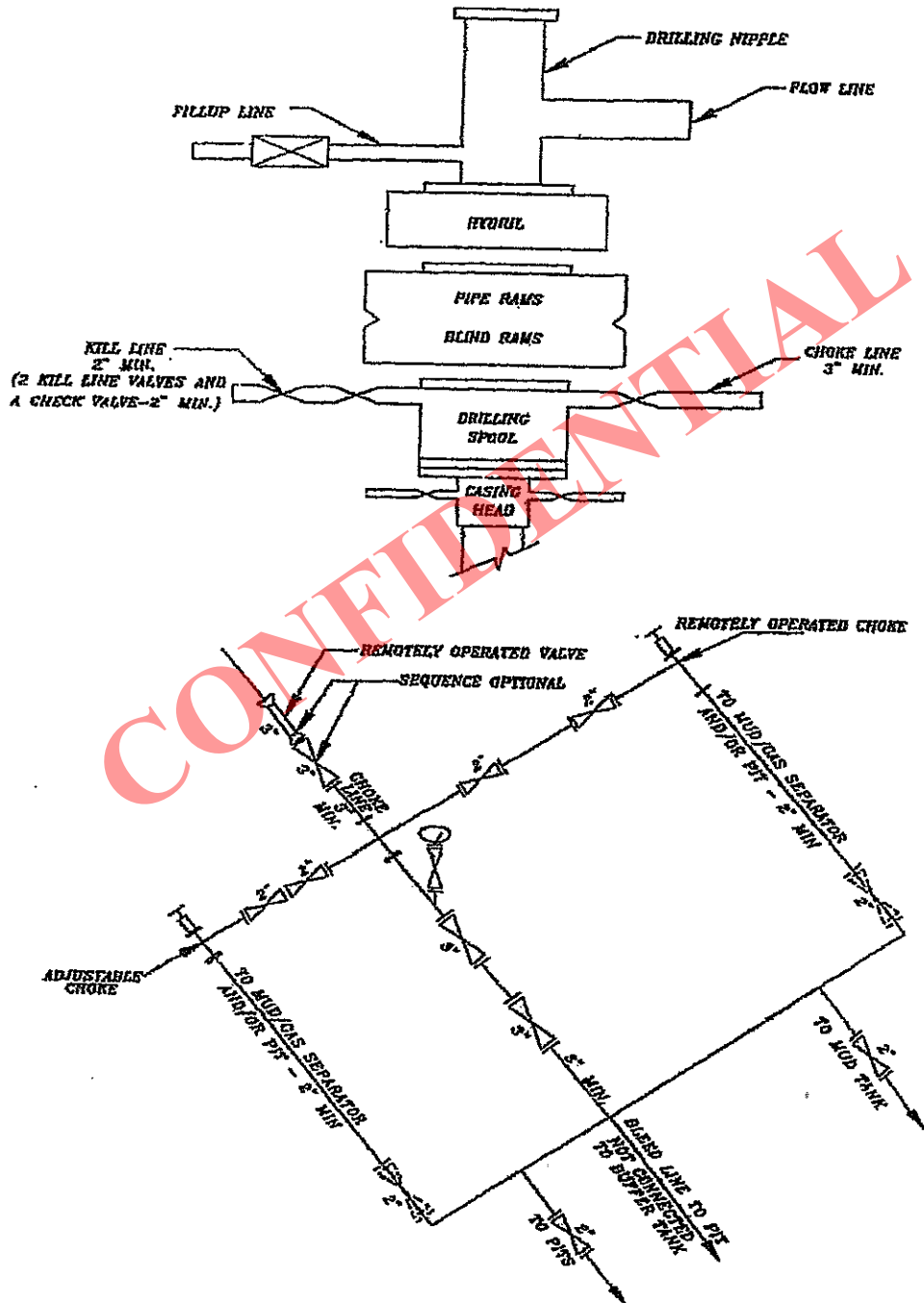
21 JAN 2014

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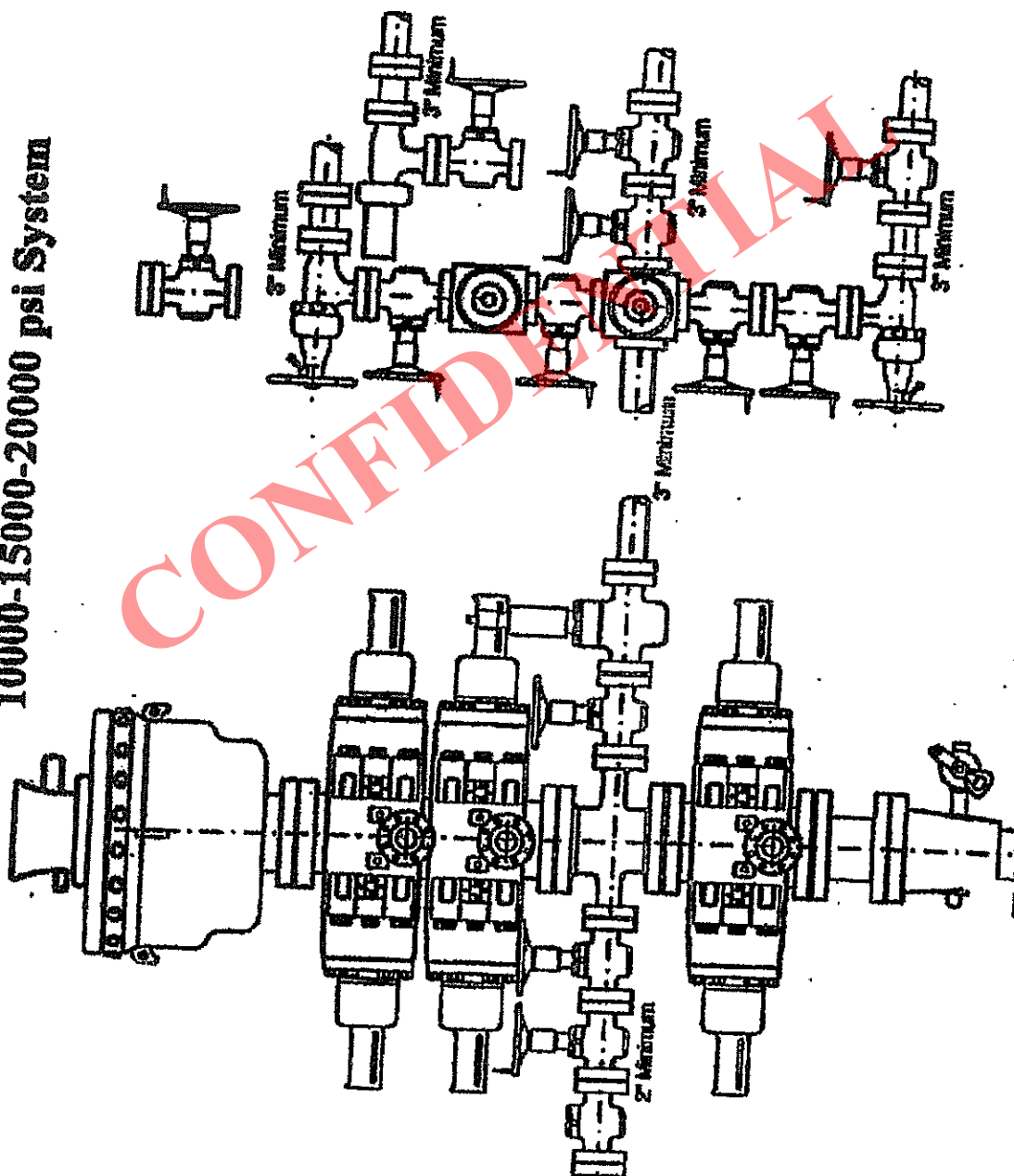
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5M BOP STACK and CHOKE MANIFOLD SYSTEM

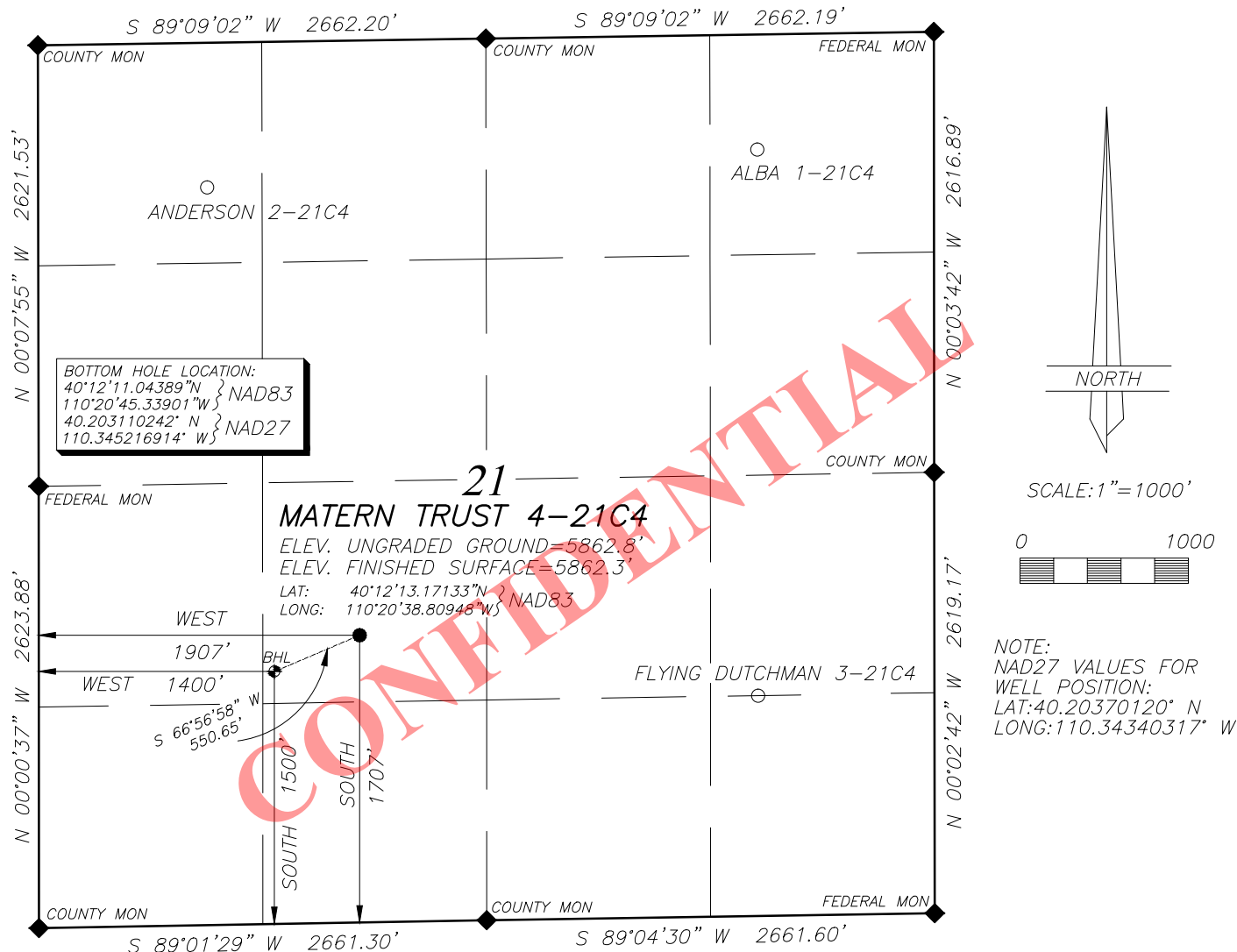


10000-15000-20000 psi System



EP ENERGY E&P COMPANY, L.P.**WELL LOCATION****MATERN TRUST 4-21C4**

LOCATED IN THE NE $\frac{1}{4}$ OF THE SW $\frac{1}{4}$ OF
SECTION 21, T3S, R4W, U.S.B.&M.
DUCHESNE COUNTY, UTAH

**LEGEND AND NOTES**

- ◆ CORNER MONUMENTS FOUND AND USED BY THIS SURVEY

THE GENERAL LAND OFFICE (G.L.O.) PLAT WAS USED FOR REFERENCE AND CALCULATIONS AS WAS THE U.S.G.S. MAP

THIS SURVEY WAS PERFORMED USING GLOBAL POSITIONING SYSTEM PROCEDURES AND EQUIPMENT

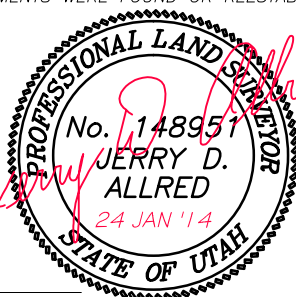
THE BASIS OF BEARINGS IS GEODETIC NORTH DERIVED FROM G.P.S. OBSERVATIONS AT THE SECTION CORNER LOCATED AT LAT. 40°15'22.90258\"N AND LONG. 110°23'21.19760\"W USING THE UTAH STATE G.P.S. VIRTUAL REFERENCE STATION CONTROL NETWORK MAINTAINED AND OPERATED BY THE AUTOMATED GEOGRAPHIC REFERENCE CENTER

BASIS OF ELEVATIONS: NAVD 88 DATUM USING THE UTAH REFERENCE NETWORK CONTROL SYSTEM

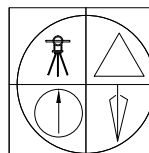
REV 24 JAN 2014
21 JAN 2014 01-128-497

SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAT WAS PREPARED FROM THE FIELD NOTES AND ELECTRONIC DATA COLLECTOR FILES OF AN ACTUAL SURVEY PERFORMED BY ME, OR UNDER MY PERSONAL SUPERVISION, DURING WHICH THE SHOWN MONUMENTS WERE FOUND OR REESTABLISHED.



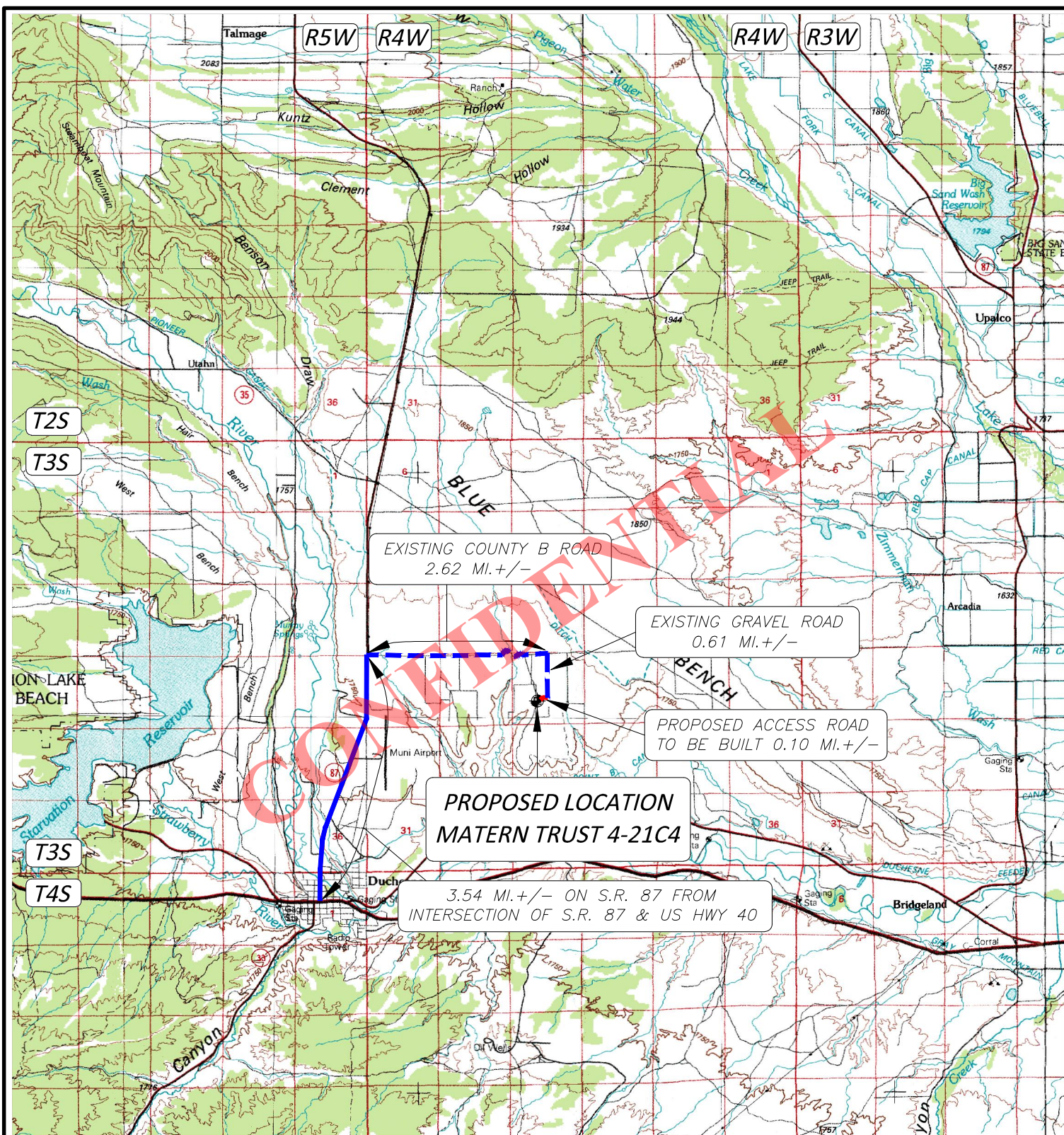
JERRY D. ALLRED, REGISTERED LAND SURVEYOR,
CERTIFICATE NO. 148951 (UTAH)



JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

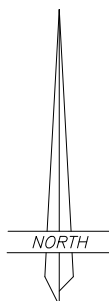
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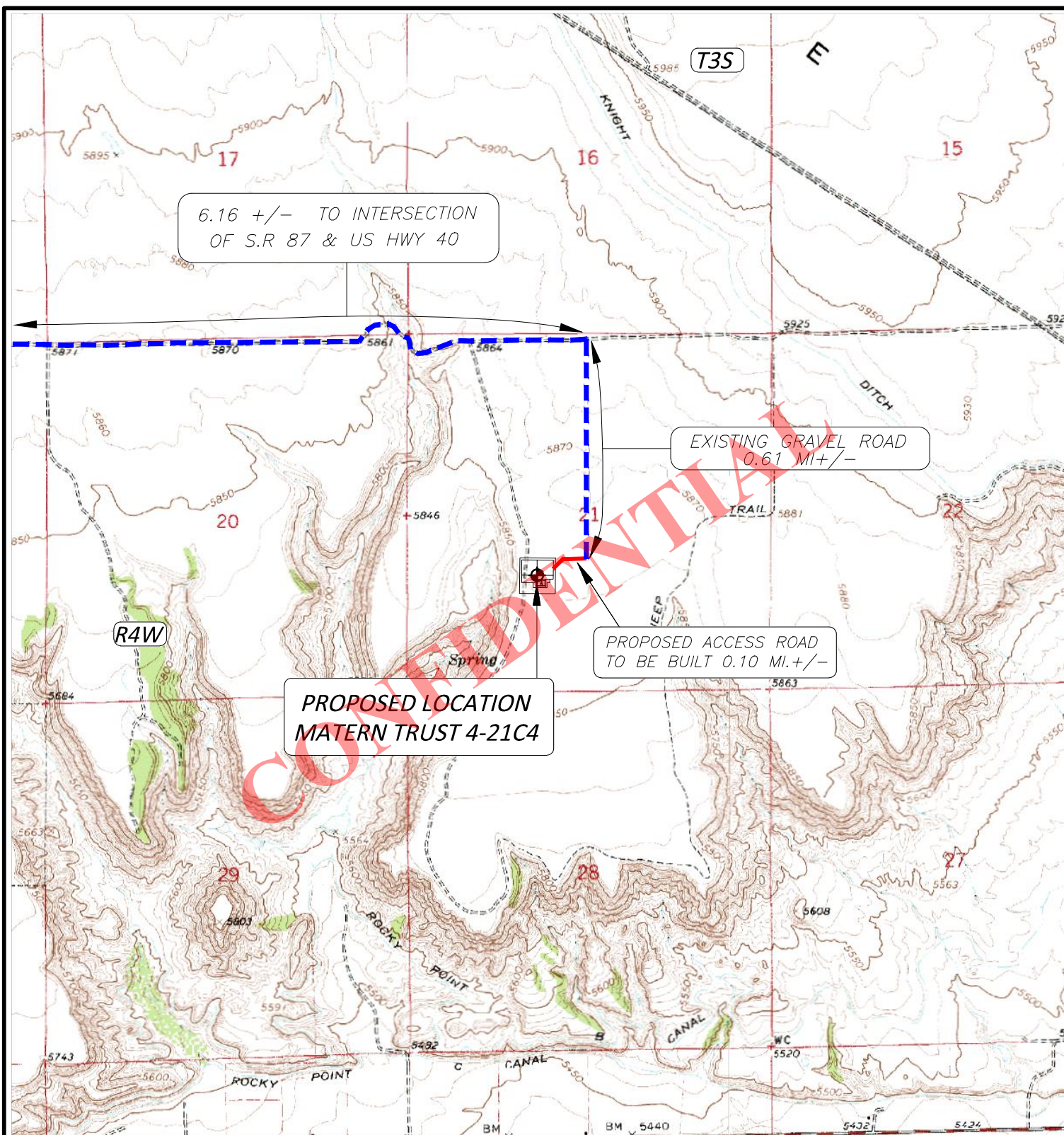
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**LEGEND:**
 **PROPOSED WELL LOCATION**





01-128-497

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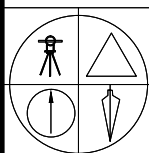
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 DUCHESNE, UTAH 84021
 (435) 738-5352
**EP ENERGY E&P COMPANY, L.P.**
MATERN TRUST 4-21C4
SECTION 21, T3S, R4W, U.S.B.&M.
1707' FSL 1907' FWL
TOPOGRAPHIC MAP "A"
 SCALE: 1"=10,000'
 21 JAN 2014
RECEIVED: February 05, 2014



LEGEND:

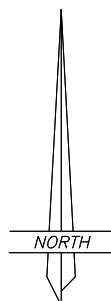
-  PROPOSED WELL LOCATION
-  PROPOSED ACCESS ROAD
-  EXISTING GRAVEL ROAD
-  EXISTING DIRT ROAD

01-128-497



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1235 NORTH 700 EAST--P.O. BOX 975
DUCHESTER, UTAH 84021
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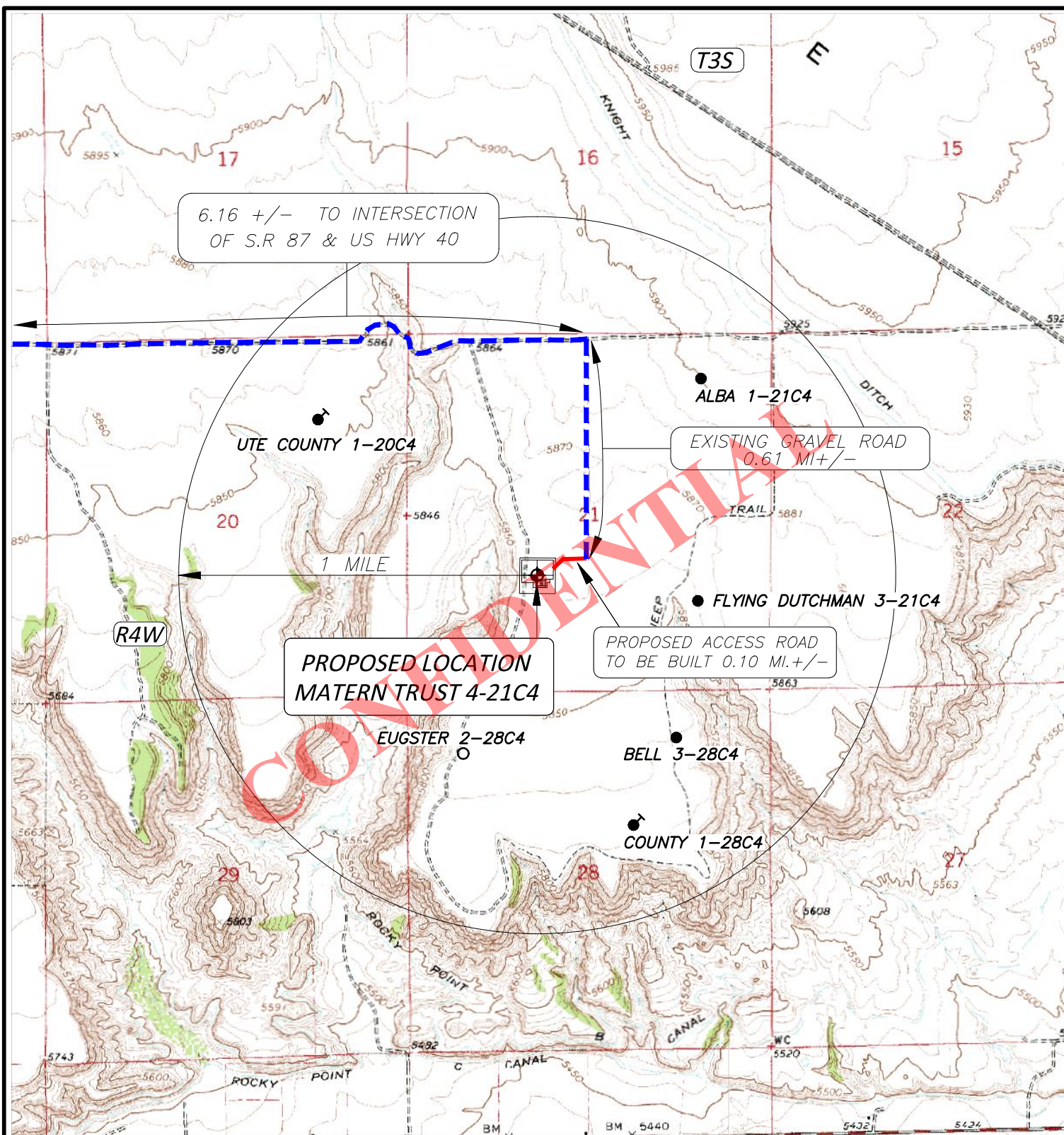
EP ENERGY E&P COMPANY, L.P.

MATERN TRUST 4-21C4
SECTION 21, T3S, R4W, U.S.B.&M.
1707' FSL 1907' FWL

TOPOGRAPHIC MAP "B"

SCALE: 1"=2000'
21 JAN 2014

RECEIVED: February 05, 2014



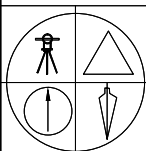
LEGEND:

 **PROPOSED WELL LOCATION**

2-25C6

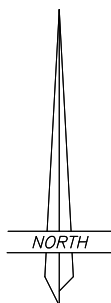


01-128-497



JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

1235 NORTH 700 EAST--P.O. BOX 975
DUCESNE, UTAH 84021
(435) 738-5352



EP ENERGY E&P COMPANY, L.P.

MATERN TRUST 4-21C4
SECTION 21, T3S, R4W, U.S.B.&M.
1707' FSL 1907' FWL

TOPOGRAPHIC MAP "C"

SCALE: 1"=2000'
21 JAN 2014

AFFIDAVIT OF DAMAGE SETTLEMENT AND RELEASE

Jacquelyn L. Lynch personally appeared before me, and, being duly sworn, deposes and says:

1. My name is Jacquelyn L. Lynch. I am a Landman for EP Energy E&P Company, L.P., whose address is 1001 Louisiana St., Houston, Texas 77002 ("EP Energy").
2. EP Energy is the operator of the proposed Matern Trust 4-21C4 well (the "Well") to be located in the NESW of Section 21, Township 3 South, Range 4 West, USM, Duchesne County, Utah (the "Drillsite Location"). The surface owner of the Drillsite Location is The Walter E.W. Matern Revocable Living Trust, dated 02/24/2003 whose address is 8066 Pleasant Green Drive, Magna, UT 84044 (the "Surface Owner"). The Surface Owner is represented by Bruce Walter Matern & Helen Matern Jelitto, Successor Co-Trustees who can be contacted at (801) 574-9875.
3. EP Energy and the Surface Owner have entered into a Damage Settlement and Release Agreement dated November 26, 2013, to cover any and all injuries or damages of every character and description sustained by the Surface Owner or Surface Owner's property as a result of operations associated with the drilling of the Well.

FURTHER AFFIANT SAYETH NOT.


Jacquelyn L. Lynch

ACKNOWLEDGMENT

STATE OF TEXAS

§

§

COUNTY OF HARRIS

§

Sworn to and subscribed before me on this 22nd day of January, 2014, by Jacquelyn L. Lynch, as Landman for EP Energy E&P Company, L.P., a Delaware limited partnership.


NOTARY PUBLIC

My Commission Expires:



EP Energy E&P Company, L.P.

Related Surface Information

1. **Current Surface Use:**

- Livestock Grazing and Oil and Gas Production.

2. **Proposed Surface Disturbance:**

- The road will be crown and ditch. Water wings will be constructed on the access road as needed.
- The topsoil will be windrowed and re-spread in the borrow area.
- New road to be constructed will be approximately .10 miles in length and 66 feet wide.
- All equipment and vehicles will be confined to the access road, pad and area specified in the APD.

3. **Location Of Existing Wells:**

- Existing oil, gas wells within one (1) mile radius of proposed well are provided in EXHIBIT C.

4. **Location And Type Of Drilling Water Supply:**

- Drilling water: Duchesne City Water

5. **Existing/Proposed Facilities For Productive Well:**

- There are no existing facilities that will be utilized for this well.
- A pipeline corridor .10 miles will parallel the proposed access road. The corridor will contain one 4 inch gas line and one 2 inch gas line and one 2 inch Salt Water disposal line. Rehabilitation of unneeded, previously disturbed areas will consist of backfilling and contouring the reserve pit area; backsloping and contouring all cut and fill slopes. These areas will be reseeded. Refer to plans for reclamation of surface for details.
- Upgrade and maintain access roads and drainage control structures (e.g., culverts, drainage dips, ditching, etc.) as necessary to prevent soil erosion and accommodate safe, year-round traffic.

6. **Construction Materials:**

- Native soil from road and location will be used for construction materials along with gravel and/or scoria road base material. In the event that conditions should necessitate graveling of all or part of the access road and location, surfacing materials will be purchased from commercial suppliers in the marketing area.

7. **Methods For Handling Waste Disposal:**

- The reserve pit will be designed to prevent the collection of surface runoff and will be constructed with a minimum of ½ the total depth below the original ground surface on the lowest point with the pit. The pit will be lined with a 20-mil polyethylene to prevent leakage of fluids. The liner will be rolled into place and secured at the ends, i.e. buried on top of the pit berms. Prior to use, the reserve pit will be fenced on three sides; the fourth side will be fenced at the time the rig is removed. Drilling fluids, cuttings and produced water will be contained in the reserve pit (trash will be placed in the trash cage). Fluids in the reserve pit will be allowed to evaporate prior to pit burial.
- Garbage and other trash will be contained in the portable trash cage and hauled off the location to an authorized disposal site. Any trash on the pad will be cleaned up prior to the rig moving off location and hauled to an authorized disposal site.
- Sewage will be handled in Portable Toilets.
- Produced water will be placed in the reserve pit for a period not to exceed ninety days after initial production. Any hydrocarbons produced during completion work will be contained in test tanks and removed from the location at a later date.
- Water from the reserve pit may be used for drilling of additional wells. The water will be trucked along access roads as approved in pertinent APD's

8. **Ancillary Facilities:**

- There will be no ancillary facilities associated with this project.

9. **Surface Reclamation Plans:**

Backfilling of the pits will be done when dry. In the event of a dry hole, the location will be re-contoured, the topsoil will be distributed evenly over the entire location, and the seedbed prepared.

- Seed will be planted after September 15th, and prior to ground frost, or seed will be planted after the frost has left and before May 15th. Slopes to steep for machinery will be hand broadcast and raked with twice the specified amount of seed.
 1. The construction program and design are on the attached cut, fill and cross sectional diagrams.
 2. Prior to construction, all topsoil will be removed from the entire site and stockpiled. Topsoil for this site is the first 6 inches of soil materials.
 3. After the location has been reshaped and after redistributing the topsoil, the operator will rip and scarify the drilling platform and access road on the contour, to a depth of at least 12 inches.
- Rehabilitation will begin upon the completion of the drilling. Complete rehabilitation will depend on weather conditions and the amount of time required to dry the reserve pit.
 1. All rehabilitation work including seeding will be completed as soon as weather and the reserve pit conditions are appropriate.
 2. Landowner will be contacted for rehabilitation requirements.

10. **Surface Ownership:**

The Walter E.W. Matern Revocable Living Trust
8066 Pleasant Green Drive
Magna, Utah 84044
801-574-9875

Other Information:

- The surface soil consists of clay, and silt.
- Flora – vegetation consists of the following: Sagebrush, Juniper and prairie grasses.
- Fauna – antelope, deer, coyotes, raptors, small mammals, and domestic grazing animals.
- Current surface uses – Livestock grazing and mineral exploration and production.

• **Operator and Contact Persons:**

Construction and Reclamation:

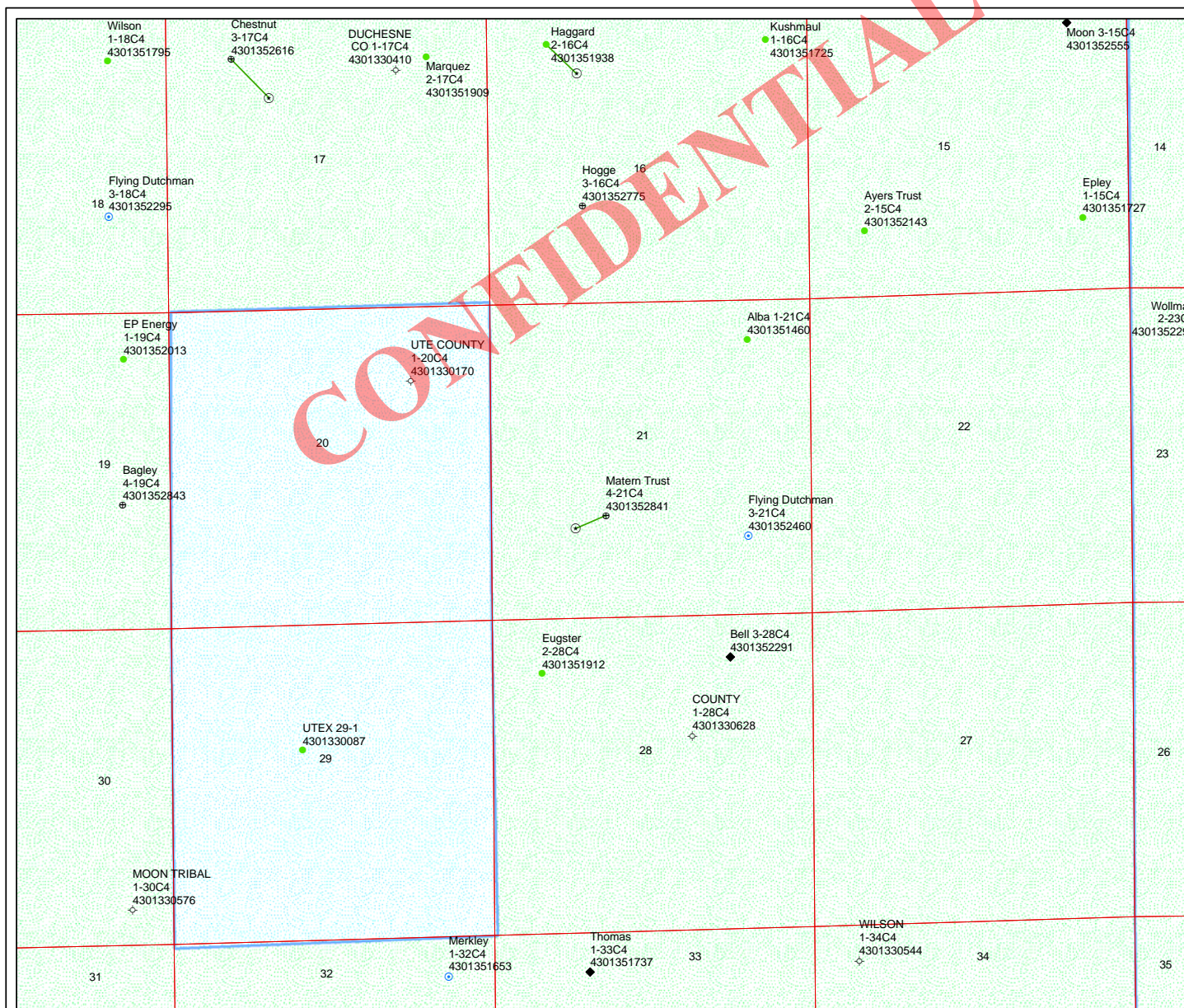
EP Energy E&P Company, L.P.
Wayne Garner
PO Box 410
Altamont, Utah 84001
435-454-3394 – Office
435-823-1490 – Cell

Regarding This APD

EP Energy E&P Company, L.P.
Maria S. Gomez
1001 Louisiana, Rm 2730D
Houston, Texas 77002
713-997-5038 – Office

Drilling

EP Energy E&P Company, L.P.
Brad MacAfee – Drilling Engineer
1001 Louisiana, Rm 2660D
Houston, Texas 77002
713-997-6383 – office
281-813-0902 – Cell



API Number: 4301352841

Well Name: Matern Trust 4-21C4

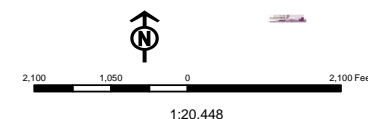
Township: T03.0S Range: R04.0W Section: 21 Meridian: U

Operator: EP ENERGY E&P COMPANY, L.P.

Map Prepared: 2/6/2014
Map Produced by Diana Mason

Wells Query		Units	
Status		STATUS	
APD - Approved Permit	◆	ACTIVE	■
DRL - Spudded (Drilling Commenced)	○	EXPLORATORY	■
GIW - Gas Injection	◆	GAS STORAGE	■
GS - Gas Storage	◆	NF PP OIL	■
LOC - New Location	◆	NF SECONDARY	■
OPS - Operation Suspended	◆	PI OIL	■
PA - Plugged Abandoned	◆	PP GAS	■
PGW - Producing Gas Well	◆	PP GEOTHERML	■
POW - Producing Oil Well	◆	PP OIL	■
SGW - Shut-in Gas Well	◆	SECONDARY	■
SOW - Shut-in Oil Well	◆	TERMINATED	■
TA - Temp. Abandoned	◆		
TW - Test Well	○		
WDW - Water Disposal	◆		
WW - Water Injection Well	◆		
WSW - Water Supply Well	◆		

Fields	STATUS
Unknown	■
ABANDONED	■
ACTIVE	■
COMBINED	■
INACTIVE	■
STORAGE	■
TERMINATED	■





Weatherford®

EP ENERGY

DUCHESNE COUNTY, UT
FLYING DUTCHMAN/MATERN TRUST
MATERN TRUST 4-21C4

MATERN TRUST 4-21C4

Plan: Design #1

PROPOSAL

04 February, 2014

CONFIDENTIAL



Weatherford®



Project: DUCHESNE COUNTY, UT
 Site: FLYING DUTCHMAN/MATERN TRUST
 Well: MATERN TRUST 4-21C4
 Wellbore: MATERN TRUST 4-21C4
 Design: Design #1
 Latitude: 40° 12' 13.171 N
 Longitude: 110° 20' 38.809 W
 GL: 5862.00
 KB: WELL @ 5879.00ft (Original Well Elev)



DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Latitude	Longitude
VP MATERN TRUST 4-21C4	8700.00	-215.25	-506.60	40° 12' 11.044 N 110° 20' 45.339 W	
PBHL MATERN TRUST 4-21C4	11900.00	-215.25	-506.60	40° 12' 11.044 N 110° 20' 45.339 W	

WELL DETAILS: MATERN TRUST 4-21C4

+N/-S	+E/-W	Northing	Ground Level: Easting	5862.00 Latitude	Longitude	Slot
0.00	0.00	7244994.38	1963254.14	40° 12' 13.171 N	110° 20' 38.809 W	

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSeet	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1700.00	0.00	0.00	1700.00	0.00	0.00	0.00	0.00	0.00	Start Build 1.50
2013.75	4.71	246.98	2013.40	-5.04	-11.85	1.50	246.98	12.88	Start 6394.75 hold at 2013.76 MD
8408.51	4.71	246.98	8386.60	-210.21	-494.75	0.00	0.00	537.55	Start Drop -1.50
8722.27	0.00	0.00	8700.00	-215.25	-506.60	1.50	180.00	550.43	Start 3200.00 hold at 8722.27 MD
11922.27	0.00	0.00	11900.00	-215.25	-506.60	0.00	0.00	550.43	TD at 11922.27

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well MATERN TRUST 4-21C4, True North
 Vertical (TVD) Reference: WELL @ 5879.00ft (Original Well Elev)
 Section (VS) Reference: Slot - (0.00N, 0.00E)
 Measured Depth Reference: WELL @ 5879.00ft (Original Well Elev)
 Calculation Method: Minimum Curvature

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
3929.00	3935.83	Green River (GRRV)
4629.00	4638.20	Green River (GRTN1)
5479.00	5491.08	Green River (GRTN1)
6779.00	6795.47	Lower Green River (TGR3)
8629.00	8651.26	Wasatch (W090TU2)

Azimuths to True North
 Magnetic North: 11.20°

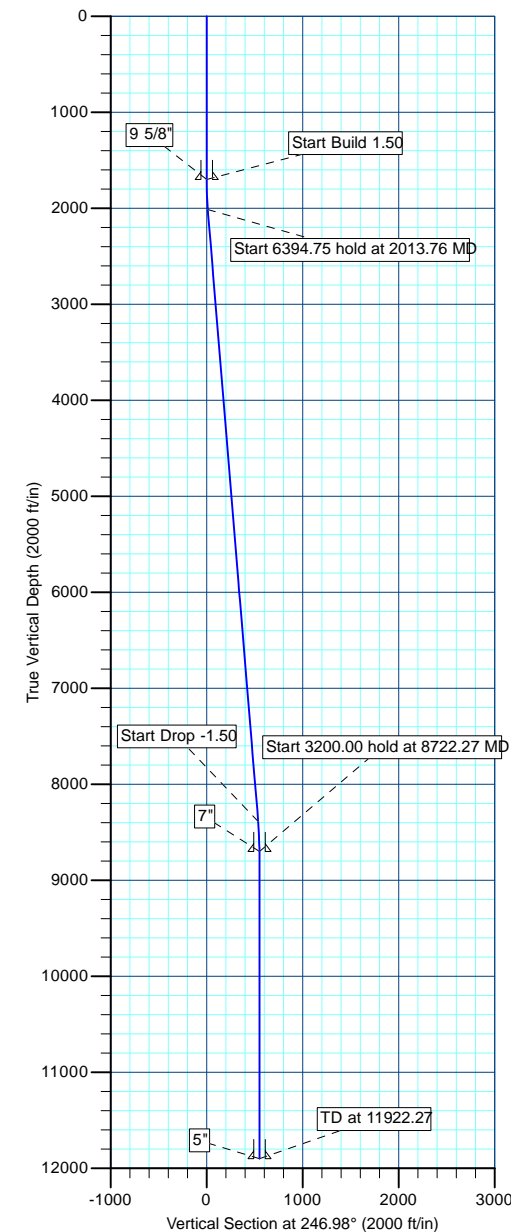
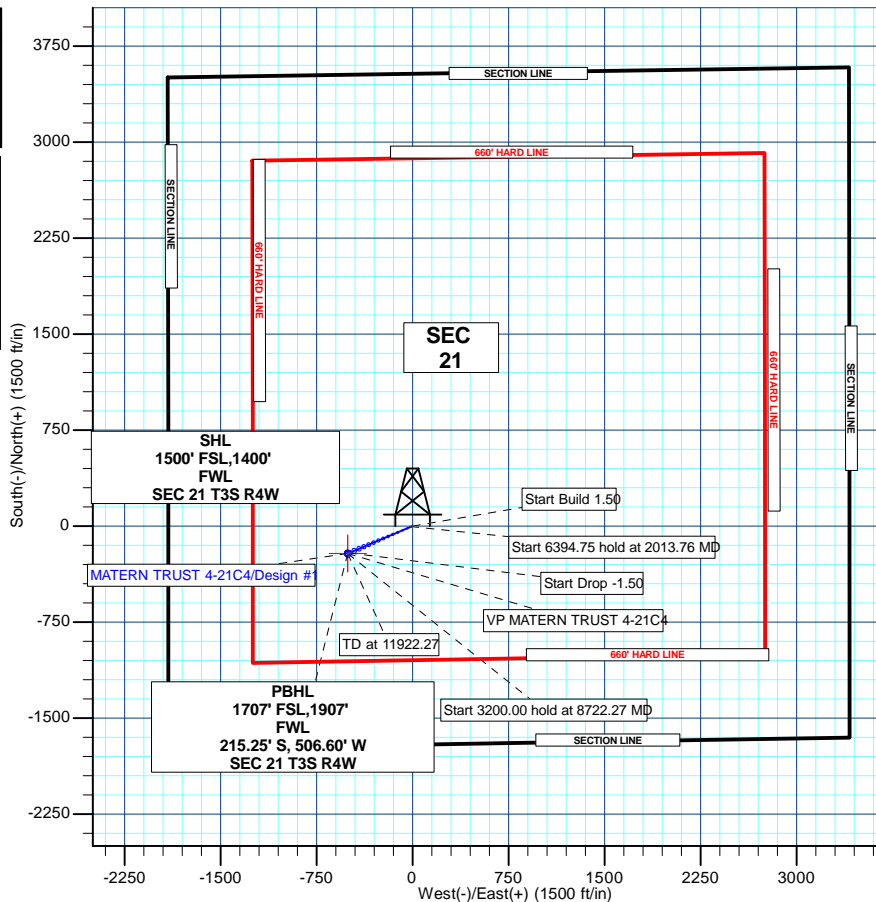
Magnetic Field
 Strength: 51959.4snT
 Dip Angle: 65.79°
 Date: 2/4/2014
 Model: BGGM2013

PROJECT DETAILS: DUCHESNE COUNTY, UT

Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: Utah Central Zone
 System Datum: Mean Sea Level

CASING DETAILS

TVD	MD	Name	Size
1700.00	1700.00	9 5/8" 9-5/8	
8700.00	8722.27	7" 7	
11900.00	11922.27	5" 5	



Plan: Design #1 (MATERN TRUST 4-21C4/MATERN TRUST 4-21C4)

Created By: THOMAS JANOUSEK Date: 11:00, February 04 2014



Weatherford®

EP ENERGY

**DUCHESNE COUNTY, UT
FLYING DUTCHMAN/MATERN TRUST
MATERN TRUST 4-21C4**

MATERN TRUST 4-21C4

Plan: Design #1

Standard Planning Report

04 February, 2014

CONFIDENTIAL



Weatherford®

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well MATERN TRUST 4-21C4
Company:	EP ENERGY	TVD Reference:	WELL @ 5879.00ft (Original Well Elev)
Project:	DUCHESNE COUNTY, UT	MD Reference:	WELL @ 5879.00ft (Original Well Elev)
Site:	FLYING DUTCHMAN/MATERN TRUST	North Reference:	True
Well:	MATERN TRUST 4-21C4	Survey Calculation Method:	Minimum Curvature
Wellbore:	MATERN TRUST 4-21C4		
Design:	Design #1		

Project	DUCHESNE COUNTY, UT		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	Utah Central Zone		

Site		FLYING DUTCHMAN/MATERN TRUST			
Site Position:		Northing:	7,244,663.51 usft	Latitude:	40° 12' 9.598 N
From:	Lat/Long	Easting:	1,965,623.99 usft	Longitude:	110° 20' 8.322 W
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16"	Grid Convergence:	0.75 °

Well	MATERN TRUST 4-21C4					
Well Position	+N/-S	361.69 ft	Northing:	7,244,994.38 usft	Latitude:	40° 12' 13.171 N
	+E/-W	-2,365.35 ft	Easting:	1,963,254.14 usft	Longitude:	110° 20' 38.809 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,862.00 ft

Wellbore	MATERN TRUST 4-21C4				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2013	2/4/2014	11.20	65.79	51,959

Design	Design #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	246.98

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,013.75	4.71	246.98	2,013.40	-5.04	-11.85	1.50	1.50	0.00	246.98	
8,408.51	4.71	246.98	8,386.60	-210.21	-494.75	0.00	0.00	0.00	0.00	
8,722.27	0.00	0.00	8,700.00	-215.25	-506.60	1.50	-1.50	0.00	180.00	VP MATERN TRUST
11,922.27	0.00	0.00	11,900.00	-215.25	-506.60	0.00	0.00	0.00	0.00	PBHL MATERN TRU

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well MATERN TRUST 4-21C4
Company:	EP ENERGY	TVD Reference:	WELL @ 5879.00ft (Original Well Elev)
Project:	DUCHESNE COUNTY, UT	MD Reference:	WELL @ 5879.00ft (Original Well Elev)
Site:	FLYING DUTCHMAN/MATERN TRUST	North Reference:	True
Well:	MATERN TRUST 4-21C4	Survey Calculation Method:	Minimum Curvature
Wellbore:	MATERN TRUST 4-21C4		
Design:	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 1.50 - 9 5/8"									
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	1.50	246.98	1,799.99	-0.51	-1.20	1.31	1.50	1.50	0.00
1,900.00	3.00	246.98	1,899.91	-2.05	-4.82	5.23	1.50	1.50	0.00
2,000.00	4.50	246.98	1,999.69	-4.60	-10.84	11.77	1.50	1.50	0.00
2,013.75	4.71	246.98	2,013.40	-5.04	-11.85	12.88	1.50	1.50	0.00
Start 6394.75 hold at 2013.76 MD									
2,013.76	4.71	246.98	2,013.41	-5.04	-11.85	12.88	0.00	0.00	0.00
2,100.00	4.71	246.98	2,099.36	-7.80	-18.37	19.95	0.00	0.00	0.00
2,200.00	4.71	246.98	2,199.02	-11.01	-25.92	28.16	0.00	0.00	0.00
2,300.00	4.71	246.98	2,298.68	-14.22	-33.47	36.36	0.00	0.00	0.00
2,400.00	4.71	246.98	2,398.35	-17.43	-41.02	44.57	0.00	0.00	0.00
2,500.00	4.71	246.98	2,498.01	-20.64	-48.57	52.77	0.00	0.00	0.00
2,600.00	4.71	246.98	2,597.67	-23.85	-56.12	60.98	0.00	0.00	0.00
2,700.00	4.71	246.98	2,697.33	-27.05	-63.67	69.18	0.00	0.00	0.00
2,800.00	4.71	246.98	2,797.00	-30.26	-71.23	77.39	0.00	0.00	0.00
2,900.00	4.71	246.98	2,896.66	-33.47	-78.78	85.59	0.00	0.00	0.00
3,000.00	4.71	246.98	2,996.32	-36.68	-86.33	93.80	0.00	0.00	0.00
3,100.00	4.71	246.98	3,095.98	-39.89	-93.88	102.00	0.00	0.00	0.00
3,200.00	4.71	246.98	3,195.65	-43.10	-101.43	110.21	0.00	0.00	0.00
3,300.00	4.71	246.98	3,295.31	-46.31	-108.98	118.41	0.00	0.00	0.00
3,400.00	4.71	246.98	3,394.97	-49.51	-116.53	126.62	0.00	0.00	0.00
3,500.00	4.71	246.98	3,494.64	-52.72	-124.09	134.82	0.00	0.00	0.00
3,600.00	4.71	246.98	3,594.30	-55.93	-131.64	143.03	0.00	0.00	0.00
3,700.00	4.71	246.98	3,693.96	-59.14	-139.19	151.23	0.00	0.00	0.00
3,800.00	4.71	246.98	3,793.62	-62.35	-146.74	159.44	0.00	0.00	0.00
3,900.00	4.71	246.98	3,893.29	-65.56	-154.29	167.64	0.00	0.00	0.00
Green River (GRRV)									
3,935.83	4.71	246.98	3,929.00	-66.71	-157.00	170.58	0.00	0.00	0.00
4,000.00	4.71	246.98	3,992.95	-68.77	-161.84	175.85	0.00	0.00	0.00
4,100.00	4.71	246.98	4,092.61	-71.97	-169.39	184.05	0.00	0.00	0.00
4,200.00	4.71	246.98	4,192.28	-75.18	-176.95	192.26	0.00	0.00	0.00
4,300.00	4.71	246.98	4,291.94	-78.39	-184.50	200.46	0.00	0.00	0.00
4,400.00	4.71	246.98	4,391.60	-81.60	-192.05	208.66	0.00	0.00	0.00
4,500.00	4.71	246.98	4,491.26	-84.81	-199.60	216.87	0.00	0.00	0.00
4,600.00	4.71	246.98	4,590.93	-88.02	-207.15	225.07	0.00	0.00	0.00

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well MATERN TRUST 4-21C4
Company:	EP ENERGY	TVD Reference:	WELL @ 5879.00ft (Original Well Elev)
Project:	DUCHESNE COUNTY, UT	MD Reference:	WELL @ 5879.00ft (Original Well Elev)
Site:	FLYING DUTCHMAN/MATERN TRUST	North Reference:	True
Well:	MATERN TRUST 4-21C4	Survey Calculation Method:	Minimum Curvature
Wellbore:	MATERN TRUST 4-21C4		
Design:	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
Green River (GRTN1)									
4,638.20	4.71	246.98	4,629.00	-89.24	-210.04	228.21	0.00	0.00	0.00
4,700.00	4.71	246.98	4,690.59	-91.23	-214.70	233.28	0.00	0.00	0.00
4,800.00	4.71	246.98	4,790.25	-94.43	-222.25	241.48	0.00	0.00	0.00
4,900.00	4.71	246.98	4,889.92	-97.64	-229.80	249.69	0.00	0.00	0.00
5,000.00	4.71	246.98	4,989.58	-100.85	-237.36	257.89	0.00	0.00	0.00
5,100.00	4.71	246.98	5,089.24	-104.06	-244.91	266.10	0.00	0.00	0.00
5,200.00	4.71	246.98	5,188.90	-107.27	-252.46	274.30	0.00	0.00	0.00
5,300.00	4.71	246.98	5,288.57	-110.48	-260.01	282.51	0.00	0.00	0.00
5,400.00	4.71	246.98	5,388.23	-113.68	-267.56	290.71	0.00	0.00	0.00
Green River (GRTN1)									
5,491.08	4.71	246.98	5,479.00	-116.61	-274.44	298.18	0.00	0.00	0.00
5,500.00	4.71	246.98	5,487.89	-116.89	-275.11	298.92	0.00	0.00	0.00
5,600.00	4.71	246.98	5,587.56	-120.10	-282.66	307.12	0.00	0.00	0.00
5,700.00	4.71	246.98	5,687.22	-123.31	-290.22	315.33	0.00	0.00	0.00
5,800.00	4.71	246.98	5,786.88	-126.52	-297.77	323.53	0.00	0.00	0.00
5,900.00	4.71	246.98	5,886.54	-129.73	-305.32	331.74	0.00	0.00	0.00
6,000.00	4.71	246.98	5,986.21	-132.94	-312.87	339.94	0.00	0.00	0.00
6,100.00	4.71	246.98	6,085.87	-136.14	-320.42	348.15	0.00	0.00	0.00
6,200.00	4.71	246.98	6,185.53	-139.35	-327.97	356.35	0.00	0.00	0.00
6,300.00	4.71	246.98	6,285.20	-142.56	-335.52	364.56	0.00	0.00	0.00
6,400.00	4.71	246.98	6,384.86	-145.77	-343.08	372.76	0.00	0.00	0.00
6,500.00	4.71	246.98	6,484.52	-148.98	-350.63	380.96	0.00	0.00	0.00
6,600.00	4.71	246.98	6,584.18	-152.19	-358.18	389.17	0.00	0.00	0.00
6,700.00	4.71	246.98	6,683.85	-155.40	-365.73	397.37	0.00	0.00	0.00
Lower Green River (TGR3)									
6,795.47	4.71	246.98	6,779.00	-158.46	-372.94	405.21	0.00	0.00	0.00
6,800.00	4.71	246.98	6,783.51	-158.60	-373.28	405.58	0.00	0.00	0.00
6,900.00	4.71	246.98	6,883.17	-161.81	-380.83	413.78	0.00	0.00	0.00
7,000.00	4.71	246.98	6,982.84	-165.02	-388.38	421.99	0.00	0.00	0.00
7,100.00	4.71	246.98	7,082.50	-168.23	-395.94	430.19	0.00	0.00	0.00
7,200.00	4.71	246.98	7,182.16	-171.44	-403.49	438.40	0.00	0.00	0.00
7,300.00	4.71	246.98	7,281.82	-174.65	-411.04	446.60	0.00	0.00	0.00
7,400.00	4.71	246.98	7,381.49	-177.86	-418.59	454.81	0.00	0.00	0.00
7,500.00	4.71	246.98	7,481.15	-181.06	-426.14	463.01	0.00	0.00	0.00
7,600.00	4.71	246.98	7,580.81	-184.27	-433.69	471.22	0.00	0.00	0.00
7,700.00	4.71	246.98	7,680.48	-187.48	-441.24	479.42	0.00	0.00	0.00
7,800.00	4.71	246.98	7,780.14	-190.69	-448.80	487.63	0.00	0.00	0.00
7,900.00	4.71	246.98	7,879.80	-193.90	-456.35	495.83	0.00	0.00	0.00
8,000.00	4.71	246.98	7,979.46	-197.11	-463.90	504.04	0.00	0.00	0.00
8,100.00	4.71	246.98	8,079.13	-200.32	-471.45	512.24	0.00	0.00	0.00
8,200.00	4.71	246.98	8,178.79	-203.52	-479.00	520.45	0.00	0.00	0.00
8,300.00	4.71	246.98	8,278.45	-206.73	-486.55	528.65	0.00	0.00	0.00
Start Drop -1.50									
8,408.51	4.71	246.98	8,386.59	-210.21	-494.75	537.55	0.00	0.00	0.00
8,408.51	4.71	246.98	8,386.60	-210.21	-494.75	537.55	0.00	0.00	0.00
8,500.00	3.33	246.98	8,477.86	-212.72	-500.65	543.97	1.50	-1.50	0.00
8,600.00	1.83	246.98	8,577.75	-214.48	-504.80	548.48	1.50	-1.50	0.00
Wasatch (W090TU2)									
8,651.26	1.07	246.98	8,629.00	-214.99	-505.99	549.77	1.50	-1.50	0.00
8,700.00	0.33	246.98	8,677.73	-215.22	-506.54	550.37	1.50	-1.50	0.00
Start 3200.00 hold at 8722.27 MD - 7"									
8,722.27	0.00	0.00	8,700.00	-215.25	-506.60	550.43	1.50	-1.50	0.00

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Planning Report

**Weatherford®**

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well MATERN TRUST 4-21C4
Company:	EP ENERGY	TVD Reference:	WELL @ 5879.00ft (Original Well Elev)
Project:	DUCHESNE COUNTY, UT	MD Reference:	WELL @ 5879.00ft (Original Well Elev)
Site:	FLYING DUTCHMAN/MATERN TRUST	North Reference:	True
Well:	MATERN TRUST 4-21C4	Survey Calculation Method:	Minimum Curvature
Wellbore:	MATERN TRUST 4-21C4		
Design:	Design #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,800.00	0.00	0.00	8,777.73	-215.25	-506.60	550.43	0.00	0.00	0.00
8,900.00	0.00	0.00	8,877.73	-215.25	-506.60	550.43	0.00	0.00	0.00
9,000.00	0.00	0.00	8,977.73	-215.25	-506.60	550.43	0.00	0.00	0.00
9,100.00	0.00	0.00	9,077.73	-215.25	-506.60	550.43	0.00	0.00	0.00
9,200.00	0.00	0.00	9,177.73	-215.25	-506.60	550.43	0.00	0.00	0.00
9,300.00	0.00	0.00	9,277.73	-215.25	-506.60	550.43	0.00	0.00	0.00
9,400.00	0.00	0.00	9,377.73	-215.25	-506.60	550.43	0.00	0.00	0.00
9,500.00	0.00	0.00	9,477.73	-215.25	-506.60	550.43	0.00	0.00	0.00
9,600.00	0.00	0.00	9,577.73	-215.25	-506.60	550.43	0.00	0.00	0.00
9,700.00	0.00	0.00	9,677.73	-215.25	-506.60	550.43	0.00	0.00	0.00
9,800.00	0.00	0.00	9,777.73	-215.25	-506.60	550.43	0.00	0.00	0.00
9,900.00	0.00	0.00	9,877.73	-215.25	-506.60	550.43	0.00	0.00	0.00
10,000.00	0.00	0.00	9,977.73	-215.25	-506.60	550.43	0.00	0.00	0.00
10,100.00	0.00	0.00	10,077.73	-215.25	-506.60	550.43	0.00	0.00	0.00
10,200.00	0.00	0.00	10,177.73	-215.25	-506.60	550.43	0.00	0.00	0.00
10,300.00	0.00	0.00	10,277.73	-215.25	-506.60	550.43	0.00	0.00	0.00
10,400.00	0.00	0.00	10,377.73	-215.25	-506.60	550.43	0.00	0.00	0.00
10,500.00	0.00	0.00	10,477.73	-215.25	-506.60	550.43	0.00	0.00	0.00
10,600.00	0.00	0.00	10,577.73	-215.25	-506.60	550.43	0.00	0.00	0.00
10,700.00	0.00	0.00	10,677.73	-215.25	-506.60	550.43	0.00	0.00	0.00
10,800.00	0.00	0.00	10,777.73	-215.25	-506.60	550.43	0.00	0.00	0.00
10,900.00	0.00	0.00	10,877.73	-215.25	-506.60	550.43	0.00	0.00	0.00
11,000.00	0.00	0.00	10,977.73	-215.25	-506.60	550.43	0.00	0.00	0.00
11,100.00	0.00	0.00	11,077.73	-215.25	-506.60	550.43	0.00	0.00	0.00
11,200.00	0.00	0.00	11,177.73	-215.25	-506.60	550.43	0.00	0.00	0.00
11,300.00	0.00	0.00	11,277.73	-215.25	-506.60	550.43	0.00	0.00	0.00
11,400.00	0.00	0.00	11,377.73	-215.25	-506.60	550.43	0.00	0.00	0.00
11,500.00	0.00	0.00	11,477.73	-215.25	-506.60	550.43	0.00	0.00	0.00
11,600.00	0.00	0.00	11,577.73	-215.25	-506.60	550.43	0.00	0.00	0.00
11,700.00	0.00	0.00	11,677.73	-215.25	-506.60	550.43	0.00	0.00	0.00
11,800.00	0.00	0.00	11,777.73	-215.25	-506.60	550.43	0.00	0.00	0.00
11,900.00	0.00	0.00	11,877.73	-215.25	-506.60	550.43	0.00	0.00	0.00
TD at 11922.27 - 5"									
11,922.27	0.00	0.00	11,900.00	-215.25	-506.60	550.43	0.00	0.00	0.00

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
VP MATERN TRUST 4-21C4	0.00	0.00	8,700.00	-215.25	-506.60	7,244,772.61	1,962,750.36	40° 12' 11.044 N	110° 20' 45.339 W
- plan hits target center									
- Point									
PBHL MATERN TRUST 4-21C4	0.00	0.00	11,900.00	-215.25	-506.60	7,244,772.61	1,962,750.36	40° 12' 11.044 N	110° 20' 45.339 W
- plan hits target center									
- Point									

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Planning Report**Weatherford**

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well MATERN TRUST 4-21C4
Company:	EP ENERGY	TVD Reference:	WELL @ 5879.00ft (Original Well Elev)
Project:	DUCHESNE COUNTY, UT	MD Reference:	WELL @ 5879.00ft (Original Well Elev)
Site:	FLYING DUTCHMAN/MATERN TRUST	North Reference:	True
Well:	MATERN TRUST 4-21C4	Survey Calculation Method:	Minimum Curvature
Wellbore:	MATERN TRUST 4-21C4		
Design:	Design #1		

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
11,922.27	11,900.00	5"	5	6-1/8	
8,722.27	8,700.00	7"	7	8-3/4	
1,700.00	1,700.00	9 5/8"	9-5/8	12-1/4	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
3,935.83	3,929.00	Green River (GRRV)		0.00	
4,638.20	4,629.00	Green River (GRTN1)		0.00	
5,491.08	5,479.00	Green River (GRTN1)		0.00	
6,795.47	6,779.00	Lower Green River (TGR3)		0.00	
8,651.26	8,629.00	Wasatch (W090TU2)		0.00	

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
1,700.00	1,700.00	0.00	0.00	Start Build 1.50	
2,013.76	2,013.76	0.00	0.00	Start 6394.75 hold at 2013.76 MD	
8,408.51	8,408.51	0.01	0.00	Start Drop -1.50	
8,722.27	8,722.27	0.00	-0.02	Start 3200.00 hold at 8722.27 MD	
11,922.27	11,861.81	-209.99	-494.22	TD at 11922.27	

Well Name	EP ENERGY E&P COMPANY, L.P. Matern Trust 4-21C4 43013528410000			
String	COND	SURF	I1	L1
Casing Size(in)	13.375	9.625	7.000	5.000
Setting Depth (TVD)	600	1700	8722	11900
Previous Shoe Setting Depth (TVD)	0	600	1700	8722
Max Mud Weight (ppg)	8.8	9.3	10.0	12.0
BOPE Proposed (psi)	1000	1000	10000	10000
Casing Internal Yield (psi)	2730	5750	11220	13940
Operators Max Anticipated Pressure (psi)	7426			12.0

Calculations	COND String	13.375	"
Max BHP (psi)	.052*Setting Depth*MW=	275	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	203	YES 4.5 x 20 rotating head
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	143	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	143	NO OK
Required Casing/BOPE Test Pressure=		600	psi
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient

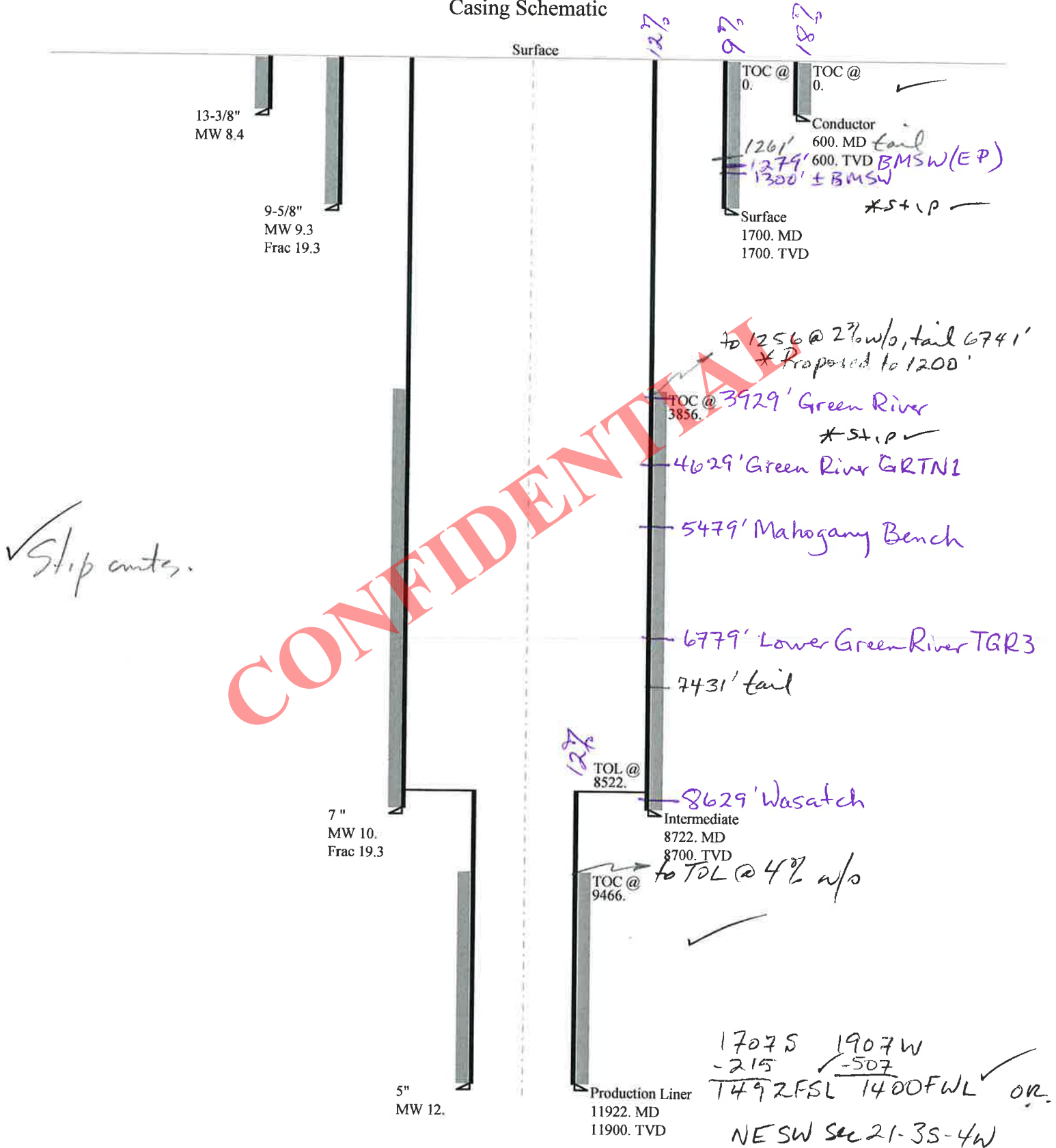
Calculations	SURF String	9.625	"
Max BHP (psi)	.052*Setting Depth*MW=	822	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	618	YES 4.5 x 13 3/8 rotating head
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	448	YES Ok
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	580	YES OK
Required Casing/BOPE Test Pressure=		1700	psi
*Max Pressure Allowed @ Previous Casing Shoe=		600	psi *Assumes 1psi/ft frac gradient

Calculations	I1 String	7.000	"
Max BHP (psi)	.052*Setting Depth*MW=	4535	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	3488	YES 10M BOPE w/rotating head, 5M annular, blind rams, flex ram
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	2616	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	2990	NO OK
Required Casing/BOPE Test Pressure=		7854	psi
*Max Pressure Allowed @ Previous Casing Shoe=		1700	psi *Assumes 1psi/ft frac gradient

Calculations	L1 String	5.000	"
Max BHP (psi)	.052*Setting Depth*MW=	7426	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	5998	YES 10M BOPE w/rotating head, 5M annular, blind rams, flex ram
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	4808	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	6727	YES
Required Casing/BOPE Test Pressure=		9758	psi
*Max Pressure Allowed @ Previous Casing Shoe=		8722	psi *Assumes 1psi/ft frac gradient

43013528410000 Matern Trust 4-21C4

Casing Schematic



Well name:	43013528410000 Matern Trust 4-21C4	
Operator:	EP ENERGY E&P COMPANY, LP.	
String type:	Conductor	Project ID: 43-013-52841
Location:	DUCHESNE COUNTY	

Design parameters:**Collapse**

Mud weight: 8.400 ppg
Design is based on evacuated pipe.

Minimum design factors:**Collapse:**

Design factor 1.125

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 82 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Burst:

Design factor 1.00

Cement top: Surface

Burst

Max anticipated surface pressure: 190 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 262 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.70 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Non-directional string.

Tension is based on buoyed weight.
Neutral point: 525 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	600	13.375	54.50	J-55	ST&C	600	600	12.49	7444
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	262	1130	4.317	262	2730	10.43	28.6	514	17.95 J

Prepared Helen Sadik-Macdonald
by: Div of Oil, Gas & Mining

Phone: 801-538-5357
FAX: 801-359-3940

Date: March 27, 2014
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 600 ft, a mud weight of 8.4 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:	43013528410000 Matern Trust 4-21C4	
Operator:	EP ENERGY E&P COMPANY, LP.	
String type:	Surface	Project ID: 43-013-52841
Location:	DUCHESNE COUNTY	

Design parameters:**Collapse**

Mud weight: 9.300 ppg
Design is based on evacuated pipe.

Minimum design factors:**Collapse:**

Design factor 1.125

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 98 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Burst:

Design factor 1.00

Cement top: Surface

Burst

Max anticipated surface pressure: 1,496 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 1,700 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.70 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on buoyed weight.
Neutral point: 1,465 ft

Non-directional string.**Re subsequent strings:**

Next setting depth: 8,700 ft
Next mud weight: 10.000 ppg
Next setting BHP: 4,519 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 1,700 ft
Injection pressure: 1,700 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	1700	9.625	40.00	N-80	LT&C	1700	1700	8.75	21631
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	821	3090	3.763	1700	5750	3.38	58.6	737	12.58 J

Prepared Helen Sadik-Macdonald
by: Div of Oil, Gas & Mining

Phone: 801 538-5357
FAX: 801-359-3940

Date: March 27, 2014
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 1700 ft, a mud weight of 9.3 ppg. The casing is considered to be evacuated for collapse purposes.
Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Well name:	43013528410000 Matern Trust 4-21C4	
Operator:	EP ENERGY E&P COMPANY, LP.	
String type:	Intermediate	Project ID: 43-013-52841
Location:	DUCHESNE COUNTY	

Design parameters:**Collapse**

Mud weight: 10.000 ppg
Design is based on evacuated pipe.

Minimum design factors:**Collapse:**

Design factor 1.125

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 196 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,000 ft

Burst

Max anticipated surface pressure: 4,800 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 6,714 psi

No backup mud specified.

Burst:

Design factor 1.00

Cement top: 3,856 ft

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.60 (B)

Tension is based on buoyed weight.
Neutral point: 7,401 ft

Directional well information:

Kick-off point 1700 ft
Departure at shoe: 551 ft
Maximum dogleg: 1.5 °/100ft
Inclination at shoe: 0 °

Re subsequent strings:

Next setting depth: 11,900 ft
Next mud weight: 12.000 ppg
Next setting BHP: 7,418 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 8,700 ft
Injection pressure: 8,700 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	8722	7	29.00	HCP-110	LT&C	8700	8722	6.059	98494

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	4519	9148	2.024	6714	11220	1.67	214.1	797	3.72 J

Prepared by: Helen Sadik-Macdonald
Div of Oil, Gas & Mining

Phone: 801 538-5357
FAX: 801-359-3940

Date: March 27, 2014
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 8700 ft, a mud weight of 10 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Engineering responsibility for use of this design will be that of the purchaser.

Well name:	43013528410000 Matern Trust 4-21C4		
Operator:	EP ENERGY E&P COMPANY, LP.		
String type:	Production Liner	Project ID:	43-013-52841
Location:	DUCHESNE COUNTY		

Design parameters:**Collapse**

Mud weight: 12.000 ppg
Design is based on evacuated pipe.

Minimum design factors:**Collapse:**

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 241 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,000 ft

Cement top: 9,466 ft

Burst

Max anticipated surface pressure: 4,800 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 7,418 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.60 (B)

Tension is based on buoyed weight.
Neutral point: 11,297 ft

Liner top: 8,522 ft

Directional well information:

Kick-off point 1700 ft
Departure at shoe: 551 ft
Maximum dogleg: 1.5 °/100ft
Inclination at shoe: 0 °

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	3422	5	18.00	HCP-110	ST-L	11900	11922	4.151	271022
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	7418	15360	2.071	7418	13940	1.88	50.3	341	6.77 J

Prepared by: Helen Sadik-Macdonald
Div of Oil, Gas & Mining

Phone: 801 538-5357
FAX: 801-359-3940

Date: March 21, 2014
Salt Lake City, Utah

Remarks:

For this liner string, the top is rounded to the nearest 100 ft. Collapse is based on a vertical depth of 11900 ft, a mud weight of 12 ppg. The Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Engineering responsibility for use of this design will be that of the purchaser.

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator EP ENERGY E&P COMPANY, L.P.
Well Name Matern Trust 4-21C4
API Number 43013528410000 **APD No** 9381 **Field/Unit** ALTAMONT
Location: 1/4,1/4 NESW Sec 21 Tw 3.0S Rng 4.0W 1707 FSL 1907 FWL
GPS Coord (UTM) 555816 4450572 **Surface Owner** Walter E.W. Matern Revocable Living Trust

Participants

Jared Thacker (EP Energy); Heather Ivie (Land man); Dennis Ingram (DOGM)

Regional/Local Setting & Topography

The proposed Matern Trust 4-21C4 staked up 3.54 miles north of Duchesne, then east along a county road for 2.62 miles, then south along access road for another 0.61 miles into the well pad to the west. Regionally, this well is located in northeastern Utah in the Uintah Basin along the southern edge of Blue Bench out near Rocky Point, where several canyons head up and drain snow melt or storm waters south toward the Duchesne River Corridor; to the north and east Blue Bench rises in elevation toward Altamont. The topography at the well pad is open rangelands with short sagebrush, bunch grass and cactus that slopes gently to the southwest.

Surface Use Plan

Current Surface Use

Recreational
Wildlife Habitat

New Road Miles

0.1

Well Pad

Width 392 **Length** 465

Src Const Material

Onsite

Surface Formation

UNTA

Ancillary Facilities N

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

Short sagebrush, Rabbit Brush, bunch grass, prickly pear cactus; potential mule deer, mountain lion, coyote, fox, raccoon, rabbits, ground squirrels and smaller mammals common to or near the Duchesne River bottoms.

Soil Type and Characteristics

Reddish, fine-grained sand with some clays and gravels

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

Drainage Diversion Required? N**Berm Required? Y****Erosion Sedimentation Control Required? N****Paleo Survey Run? N Paleo Potential Observed? N Cultural Survey Run? N Cultural Resources? N****Reserve Pit****Site-Specific Factors****Site Ranking**

Distance to Groundwater (feet)	>200	0
Distance to Surface Water (feet)	>1000	0
Dist. Nearest Municipal Well (ft)	>5280	0
Distance to Other Wells (feet)	>1320	0
Native Soil Type	High permeability	20
Fluid Type	Fresh Water	5
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)		0
Affected Populations	30 to 50	30 to 50
Presence Nearby Utility Conduits	Not Present	0
	Final Score	33 1 Sensitivity Level

Characteristics / Requirements

Reserve pit staked off the south side of location in little to no cut, measuring 110' wide by 150' long by 15' deep.

Closed Loop Mud Required? Liner Required? Y Liner Thickness 20 Pit Underlayment Required?**Other Observations / Comments**

Landowners invited but did not attend, surface relatively flat, no drainage issues on location but does have a south draining canyon adjacent to the west.

Dennis Ingram
Evaluator

3/6/2014
Date / Time

Application for Permit to Drill

Statement of Basis

Utah Division of Oil, Gas and Mining

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
9381	43013528410000	LOCKED	OW	P	No
Operator	EP ENERGY E&P COMPANY, L.P.		Surface Owner-APD	Walter E.W. Matern Revocable Living Trust	
Well Name	Matern Trust 4-21C4		Unit		
Field	ALTAMONT		Type of Work	DRILL	
Location	NESW 21 3S 4W U 1707 FSL 1907 FWL GPS Coord (UTM) 555819E 4450569N				

Geologic Statement of Basis

El Paso proposes to set 600 feet of conductor and 1,700 feet of surface casing both of which will be cemented to surface. The surface and intermediate holes will be drilled utilizing fresh water mud. The estimated depth to the base of moderately saline ground water is 1,300 feet. A search of Division of Water Rights records indicates that there are 8 water wells within a 10,000 foot radius of the center of Section 21. These wells probably produce water from near surface alluvium and the Duchesne River Formation. Depths of the wells fall in the range of 30-300 feet. The wells are listed as being used for irrigation, stock watering and domestic. The nearest water wells are nearly a mile north of the proposed well. The proposed drilling, casing and cement program should adequately protect the highly used Duchesne River aquifer.

Brad Hill
APD Evaluator

3/11/2014
Date / Time

Surface Statement of Basis

Surface slopes southwesterly showing 2.5 feet of cut along the northeastern corner of the reserve pit and 1.7 feet of fill at the southwest edge of location. There aren't any drainage or erosion issues on this surface at the present time. A reserve pit is planned and staked along the south side of the location in cut, and shall be lined with a 20 mil synthetic liner as shown in the operator plan. The location shall also be bermed to prevent fluids from leaving the well site into an adjacent drainage to the southwest.

A presite was scheduled and done on March 6, 2014 to address issues regarding the construction and drilling of the Matern Trust 4-21C4 well. Walter Matern was contacted and invited to the presite as the landowner. E&P Energy has submitted documentation to the Division that they do have a surface damage agreement with the landowner of record.

Dennis Ingram
Onsite Evaluator

3/6/2014
Date / Time

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 20 mils shall be properly installed and maintained in the reserve pit.
Pits	The reserve pit should be located on the south side of the location.
Surface	The well site shall be bermed to prevent fluids from leaving the pad.

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 2/5/2014

API NO. ASSIGNED: 43013528410000

WELL NAME: Matern Trust 4-21C4

OPERATOR: EP ENERGY E&P COMPANY, L.P. (N3850)

PHONE NUMBER: 713 997-5038

CONTACT: Maria S. Gomez

PROPOSED LOCATION: NESW 21 030S 040W

Permit Tech Review: ☒

SURFACE: 1707 FSL 1907 FWL

Engineering Review: ☒

BOTTOM: 1500 FSL 1400 FWL

Geology Review: ☒

COUNTY: DUCHESNE

LATITUDE: 40.20366

LONGITUDE: -110.34412

UTM SURF EASTINGS: 555819.00

NORTHINGS: 4450569.00

FIELD NAME: ALTAMONT

LEASE TYPE: 4 - Fee

LEASE NUMBER: Fee

PROPOSED PRODUCING FORMATION(S): GREEN RIVER(LWR)-WASATCH

SURFACE OWNER: 4 - Fee

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

☒ PLAT☒ Bond: STATE - 400JU0708☐ Potash☐ Oil Shale 190-5☐ Oil Shale 190-3☐ Oil Shale 190-13☒ Water Permit: Duchesne City☐ RDCC Review:☒ Fee Surface Agreement☐ Intent to Commingle

Commingling Approved

LOCATION AND SITING:

☐ R649-2-3.

Unit:

☐ R649-3-2. General☐ R649-3-3. Exception☒ Drilling Unit

Board Cause No: Cause 139-90

Effective Date: 5/9/2012

Siting: 4 Wells Per 640 Acre

☒ R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 5 - Statement of Basis - bhill
8 - Cement to Surface -- 2 strings - hmadonald
12 - Cement Volume (3) - ddoucet
15 - Directional - dmason

RECEIVED: March 31, 2014



GARY R. HERBERT
Governor

SPENCER J. COX
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: Matern Trust 4-21C4

API Well Number: 43013528410000

Lease Number: Fee

Surface Owner: FEE (PRIVATE)

Approval Date: 3/31/2014

Issued to:

EP ENERGY E&P COMPANY, L.P., 1001 Louisiana, Houston, TX 77002

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 139-90. The expected producing formation or pool is the GREEN RIVER(LWR)-WASATCH Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Cement volumes for the 13 3/8" and 9 5/8" casing strings shall be determined from actual hole diameters in order to place cement from the pipe setting depths back to the surface.

Cement volume for the 7" intermediate string shall be determined from actual hole diameter in order to place cement from the pipe setting depth back to 1200' MD and tail cement back to a minimum above the TGR3 as indicated in the submitted drilling plan.

Additional Approvals:

The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan - contact Dustin Doucet
- Significant plug back of the well - contact Dustin Doucet
- Plug and abandonment of the well - contact Dustin Doucet

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well - contact Carol Daniels
OR
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website
at <http://oilgas.ogm.utah.gov>
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing - contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program
- contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well - contact Dan Jarvis

Contact Information:

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office
801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office
801-231-8956 - after office hours

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) - due within 5 days of spudding the well
- Monthly Status Report (Form 9) - due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) - due prior to implementation
- Written Notice of Emergency Changes (Form 9) - due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) - due prior to implementation
- Report of Water Encountered (Form 7) - due within 30 days after completion
- Well Completion Report (Form 8) - due within 30 days after completion or plugging

Approved By:

Approved By:

A handwritten signature in black ink, appearing to read 'J. Rogers', written over a faint horizontal line.

For John Rogers
Associate Director, Oil & Gas



Alexis Huefner <alexishuefner@utah.gov>

EP ENERGY / MATERN TRUST 4-21C4 / API # 43013528410000 / SPUD NOTIFICATIONS

1 message

LANDRIG009 (Precision 406) <LANDRIG009@epenergy.com>

Tue, Apr 22, 2014 at 8:39 PM

To: "alexishuefner@utah.gov" <alexishuefner@utah.gov>, "MacAfee, Bradley D" <Brad.MacAfee@epenergy.com>, "caroldaniels@utah.gov" <caroldaniels@utah.gov>, "dennisingram@utah.gov" <dennisingram@utah.gov>, "Dodd, Robert W" <Robert.Dodd@epenergy.com>, "Morales, Lisa" <Lisa.Morales@epenergy.com>, "Gomez, Maria S" <Maria.Gomez@epenergy.com>, "Evans, Perry (Contractor)" <Perry.Evans@epenergy.com>, "Walt, Michael Joseph" <Michael.Walt@epenergy.com>

SPUD / DRILL & SET-CMT 13 3/8" CONDUCTOR CSG

EP ENERGY

MATERN TRUST 4-21C4

API # 43013528410000

ALTAMONT FIELD

DUCHESNE COUNTY

1107 FSL @ 1907 FWL
NE8W 21 3S 4W

CONFIDENTIAL

(4-15-14) SPUDED WELL @ 8:00 AM. LEON ROSS DRILLING BUCKET RIG SET & CMT 40' OF 20" CONDUCTOR

(4-16-14) - (4-18-14) LEON ROSS DRILLING DRILLED 17 1/2" HOLE TO 640' (GL). RAN 13 3/8" 54.5 # J55 STC CSG TO 630' (GL). PROPETRO CEMENTED 13 3/8" CSG ON (3-26-14) W/ 760 SX 15.8 PPG PREMIUM CEMENT. HAD 50 BBL GOOD CEMENT RETURNED TO SURFACE. CEMENT DID NO FALL BACK.

Thanks,

Roy Darden / Morgan Harden

EP Energy / PD 406

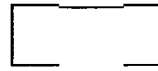
713-997-1220 (Rig)

903-229-2878 (Cell)

CONFIDENTIAL

NESA 5-21 TOSS ROYU FEE LEASE

Mail



CONFIDENTIAL

COMPOSE

EP ENERGY / MATERN TRUST 4-21-14 / PD 406 /
NOTIFICATION OF TESTING BOPE & 13 3/8" CSG

Inbox x

Inbox (6)
Starred
Important
Sent Mail
Drafts (1)
Cabinet
Follow up
Misc
Notes
Priority
More

LANDRIG009 (Precision 406)

8:51 PM (10 hours ago)

to alexishuefner, Bradley, me, dennisingram, Robert, Lisa, Maria, F

TEST DIVERTER & CSG / SPUD 12.25" HOLE NOTIFICATION

EP ENERGY

MATERN TRUST 4-21C4

API # 43013528410000

ALTAMONT FIELD

DUCHESNE COUNTY

Search people...

Don Staley
Diana Mason
alexishuefner
alexisheufner
Amy Mackey
Angela Nance
barbara_nicol
Branden Arnold
Bryan Coltharp
Rodrigo Jurado I...

WE HAVE MI & RU PRECISION RIG 406 ON THE ABOVE REFERENCED WELL. WE WILL BE TESTING THE 13 5/8" DIVERTER SYSTEM & 13 3/8" CSG @ APPROX 8:00 AM 4-24-14 WE ANTICIPATE SPUDDING THE 12 1/4" HOLE @ APPROX 8:00 PM 4-24-14. WE PLAN DRILLING A 12 1/4" HOLE TO 1700' & SET/CMT 9 5/8" CSG. ND DIVERTER SYSTEM. NU 11" 10M BOPE. WE ANTICIPATE TESTING THE BOPE & 9 5/8" CSG @ 6:00 PM 4-25-14. WE WILL THEN START DRILLING THE 8 3/4" INTERMEDIATE HOLE SECTION.

Thanks,

Roy Derden / Morgan Harden
EP Energy / PD 406
713-997-1220 (Rig)
903-229-2878 (Cell)

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CONFIDENTIAL



Carol Daniels <caroldaniels@utah.gov>

NESW SEC 21 T03S R04W

24hr Notice Run & Cement Casing

1 message

LANDRIG009 (Precision 406) <LANDRIG009@epenergy.com>

Wed, Apr 30, 2014 at 4:28 PM

To: "alexishuefner@utah.gov" <alexishuefner@utah.gov>, "MacAfee, Bradley D" <Brad.MacAfee@epenergy.com>, "caroldaniels@utah.gov" <caroldaniels@utah.gov>, "dennisingram@utah.gov" <dennisingram@utah.gov>, "Dodd, Robert W" <Robert.Dodd@epenergy.com>, "Morales, Lisa" <Lisa.Morales@epenergy.com>, "Gomez, Maria S" <Maria.Gomez@epenergy.com>, "Evans, Perry (Contractor)" <Perry.Evans@epenergy.com>, "Walt, Michael Joseph" <Michael.Walt@epenergy.com>

RE: EP Energy LLC

Matern Trust 4-21C4

API # 43013528410000

Altamont Field

Duchesne County , UT

We plan on running & cementing 7" 29# HCP-110 LTC Intermediate casing to +/- 8,720' within 24hrs.

Regards,

Tony Wilkerson

Wellsite Supervisor

EP Energy / PD 406

713-997-1220 (Rig)

318-715-7602 (Cell)

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CONFIDENTIAL

Carol Daniels <caroldaniels@utah.gov>

NESW 5-21 T035 R04W FEE LEASE

24hr Notice Run & Cement Casing

1 message

LANDRIG009 (Precision 406) <LANDRIG009@epenergy.com>

Mon, May 5, 2014 at 5:04 AM

To: "alexishuefner@utah.gov" <alexishuefner@utah.gov>, "MacAfee, Bradley D" <Brad.MacAfee@epenergy.com>, "caroldaniels@utah.gov" <caroldaniels@utah.gov>, David Hackford <davidhackford@utah.gov>, "dennisingram@utah.gov" <dennisingram@utah.gov>, "Dodd, Robert W" <Robert.Dodd@epenergy.com>, "Morales, Lisa" <Lisa.Morales@epenergy.com>, "Gomez, Maria S" <Maria.Gomez@epenergy.com>, "Evans, Perry (Contractor)" <Perry.Evans@epenergy.com>, "Walt, Michael Joseph" <Michael.Walt@epenergy.com>

RE: EP Energy LLC

Matern Trust 4-21C4

API # 43013528410000

Altamont Field

Duchesne County , UT

We plan on running & cementing 5" 18# HCP-110 STL Production Liner to +/- 11,422' within 24hrs.

Regards,

Tony Wilkerson

Wellsite Supervisor

EP Energy / PD 406

713-997-1220 (Rig)

318-715-7602 (Cell)

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CONFIDENTIAL



Carol Daniels <caroldaniels@utah.gov>

NESW SEC 21 T03S R04W

24hr Notice Run & Cement Casing

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Tony Wilkerson

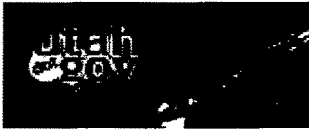
Wellsite Supervisor

EP Energy / PD 406

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CONFIDENTIAL

Carol Daniels <caroldaniels@utah.gov>

NESW 5-21 T035 R04W FEE LEASE

24hr Notice Run & Cement Casing

1 message

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STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL Oil Well		7. UNIT or CA AGREEMENT NAME:
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.		8. WELL NAME and NUMBER: Matern Trust 4-21C4
3. ADDRESS OF OPERATOR: 1001 Louisiana, Houston, TX, 77002		9. API NUMBER: 43013528410000
PHONE NUMBER: 713 997-5038 Ext		9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1707 FSL 1907 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW Section: 21 Township: 03.0S Range: 04.0W Meridian: U		COUNTY: DUCHESNE
		STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 7/11/2014	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input type="text" value="Initial Completion"/>
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input type="checkbox"/> DRILLING REPORT Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Initial Completion (remediate liner and execute frac). Did not get full column of cement across the full length of the liner due to a depleted zone. See attached for details.

Approved by the
 July 31, 2014
 Oil, Gas and Mining

Date: _____

By: Derek Duff

NAME (PLEASE PRINT) Maria S. Gomez	PHONE NUMBER 713 997-5038	TITLE Principal Regulatory Analyst
SIGNATURE N/A	DATE 7/2/2014	

Matern Trust 4-21C4

Initial Completion and Remedial Cementing Continuous Operation

API # : 43013528410000

The following precautions will be taken until the RCA for the Conover is completed:

1. Review torque turning and running of the 7" and 5" liner of anomalies.
2. Test and chart casing for 30 minutes, noting pressure if any on surface casing.
3. Test all lubricators, valves and BOP's to working pressure.
4. Wellhead isolation tools will continue to be used to isolate the wellhead during the frac.
5. Monitor the surface casing during frac:
 - a. Lay a flowline to the flow back tank and keep the valve open.
 - b. This line will remain in place until a wire line set retrievable packer is in place isolating the 5" casing from the 7" after the frac.
6. 2 7/8" tubing will be run to isolate the 7" casing during the flow back of the well.
7. Well pressure and annulus pressure would be monitored during this time until the well is ready for pump.

Ideal Completion Information (Wasatch Formation)

Stage #1	RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~10904' – 11260' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~130000 # of TLC 30/50. Total clean water volume is 112540 gals.
Stage #2	RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~10459' – 10778' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~130000 # of TLC 30/50. Total clean water volume is 111876 gals.
Stage #3	RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~10162' – 10389' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~130000 # of TLC 30/50. Total clean water volume is 111433 gals.
Stage #4	RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~9867' – 10102' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~130000 # of TLC 30/50. Total clean water volume is 110993 gals.
Stage #5	RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~9615' – 9843' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~145000 # of TLC 30/50. Total clean water volume is 121542 gals.

Stage #6 RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~9321' – 9592' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~150000 # of TLC 30/50. Total clean water volume is 123412 gals.

Stage #7 RU WL unit with 10K lubricator and test to 10,000 psi with glycol. Perforations from ~8965' – 9293' with ~5000 gallons of 15% HCL acid, ~3000 # of 100 mesh sand and ~155000 # of TLC 30/50. Total clean water volume is 125189 gals.

Stimulation Summary

	Top Perf	Btm. Perf	Gross Interval	Plug Depth	Net Perf Length	Total Shots	Perf Intervals	Type of Prop	Lbs of Prop	Lbs/ft	Lbs of 100 Mesh	Gals of HCL (15%)	Gals of Clean H2O	Gals of Slurry
Stage #1	10,904	11,260	356	NA	23	69	17	TLC 30/50	130,000	365	3,000	5,000	112,540	123,738
Stage #2	10,459	10,778	319	NA	22	66	16	TLC 30/50	130,000	408	3,000	5,000	111,876	123,074
Stage #3	10,162	10,389	227	NA	18	54	13	TLC 30/50	130,000	573	3,000	5,000	111,433	122,631
Stage #4	9,867	10,102	235	NA	23	69	16	TLC 30/50	130,000	553	3,000	5,000	110,993	122,191
Stage #5	9,615	9,843	228	NA	20	60	15	TLC 30/50	145,000	636	3,000	5,000	121,542	133,439
Stage #6	9,321	9,592	271	NA	23	69	17	TLC 30/50	150,000	554	3,000	5,000	123,412	135,542
Stage #7	8,965	9,293	328	NA	23	69	17	TLC 30/50	155,000	473	3,000	5,000	125,189	137,552
Average per Stage			281		22	65	16		138,571	509	3,000	5,000	116,712	128,310
Totals per Well			1,964		152	456	111		970,000		21,000	35,000	816,985	898,168

Remedial Cementing & Frac Procedure

- 1 RU Frac Crew & equipment
- 2 Pressure Test Lines
- 3 Frac Stages 1 & 2 according to design on stimulation sheet
Note: The 5" liner, Usable top of cement is at 10,270'
- 4 Flow back Stages 1 & 2 for a week (to get frac fluid off formation)

Cycle 1: Squeeze & Frac 2 stages Procedure:

- 5 RU Wireline & equipment
- 6 Set CBP 20' below the planned squeeze perforations at 10,290'
- 7 Perforate 2' (4SPF) squeeze holes 25' above TOC, at 10,245' (Note: Usable TOC is at 10,270')
- 8 RU WO rig and cement crew, GIH with stick pipe and retainer, set retainer at 10,235'
- 9 Establish injection rate and pump 50 sacks Class H squeeze job
Note: (Report Injection rate and pressure to completions engineer)
- 10 WOC (Run Bond Log to determine new TOC2)
- 11 If coverage enough 2stages, DO cement retainer with Rig and frac stages 3 & 4.
(Note: use flow through ball plug or check valve flow back capable plug)
- 12 flow back stages 3&4 for 2 days.

Cycle 2: Squeeze & Frac Procedure:

- 13 RU Wireline & equipment
- 14 Set CBP at TOC point in the casing.

- 15 Perforate 2' (4SPF) squeeze holes 25' above TOC2
- 16 Perforate 2' (4SPF) squeeze holes on 80' above the shallowes planned perfs for stage 7
- 17 Note: Shallowest planned perf~8965. Squeeze perf holes~8885
- 19 Establish small injection rate (2 BPM and see pressures)
- 18 RU WO rig , equipment and cement crew, GIH with stick pipe and
retainer, set retainer 20' above deeper squeeze perfs'
- 20 Establish circulation injection rate and determine volume of cement to be pumped
- 21 Establish circulation injection rate and pump 50/volume calculated sacks (Class H) squeeze job
Note:(Report and discuss Injection rate and pressure to completions engineer)
- 22 WOC (Run Bond Log to determine new TOC3)
- 23 if good coverage on 3 srages, drill out CIBP
- 24 perforate and frac 3 stages (Stage 5,6&7)
- 25 RU coil and drill out and clean out to Float collar.

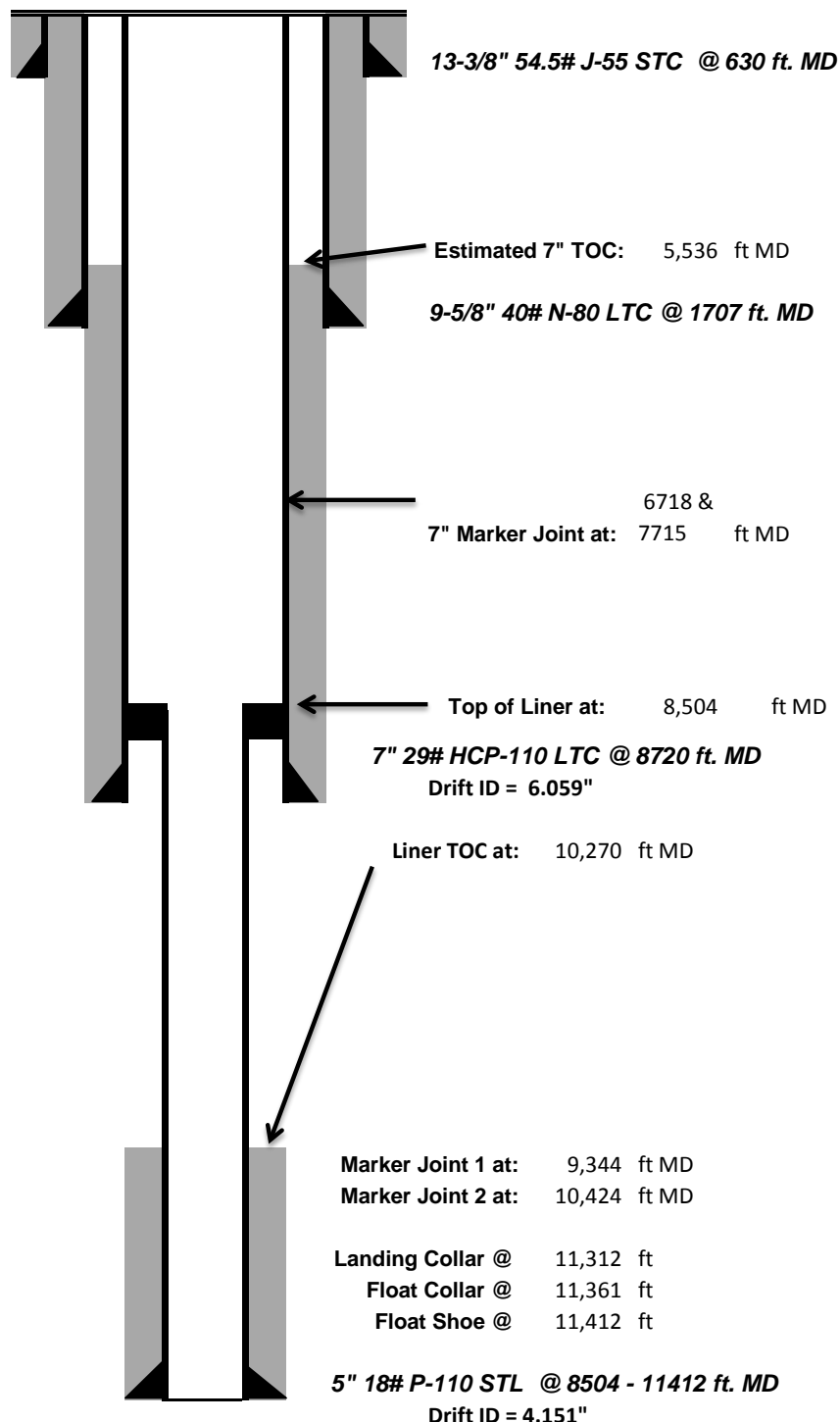


Pre-Completion Wellbore Schematic

Well Name: **Matern Trust 4-21C4**
 Company Name: **EP Energy**
 Field, County, State: **Altamont, Duchesne, UT**
 Surface Location: **Lat: 40 12' 13.171" N Long: 110 20' 38.809" W**
 Producing Zone(s): **UW**

Last Updated: **6/6/2014**
 By: **Mohammad Siddiqui**
 TD: **11,412**
 API: **43013528410000**
 AFE: **161605**

8.43 ppg KCL substitute (Clay Webb Water)
 water in the wellbore



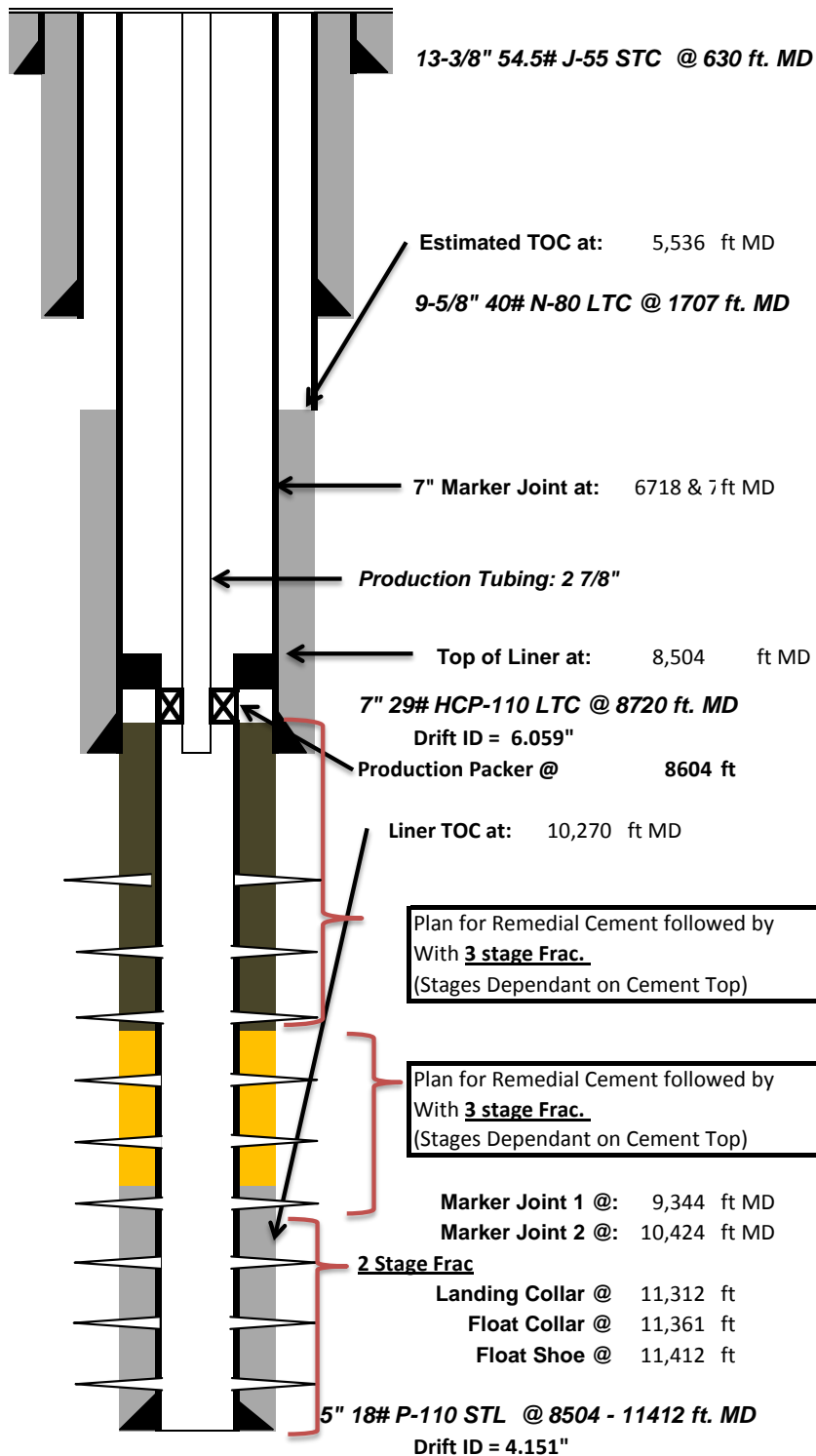


Post-Completion Wellbore Schematic

Well Name: **Matern Trust 4-21C4**
 Company Name: **EP Energy**
 Field, County, State: **Altamont, Duchesne, UT**
 Surface Location: **Lat: 40 12' 13.171" N Long: 110 20' 38.809" W**
 Producing Zone(s): **UW**

Last Updated: **6/6/2014**
 By: **Mohammad Siddiqui**
 TD: **11,412**
 API: **43013528410000**
 AFE: **161605**

8.43 ppg KCL substitute (Clay Webb Water)
 water in the wellbore



Initial Completion Perf Information

0	-	' / shots
	gal HCL & lbs	
0	-	' / shots
	gal HCL & lbs	
0	-	' / shots
	gal HCL & lbs	
0	-	' / shots
	gal HCL & lbs	
0	-	' / shots
	gal HCL & lbs	
0	-	' / shots
	gal HCL & lbs	

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MININGAMENDED REPORT ☐ FORM 8
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG						5. LEASE DESIGNATION AND SERIAL NUMBER:					
						6. IF INDIAN, ALLOTTEE OR TRIBE NAME					
						7. UNIT or CA AGREEMENT NAME					
						8. WELL NAME and NUMBER:					
1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER _____						9. API NUMBER:					
b. TYPE OF WORK: NEW WELL <input type="checkbox"/> HORIZ. LATS. <input type="checkbox"/> DEEP-EN <input type="checkbox"/> RE-ENTRY <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER _____						10 FIELD AND POOL, OR WILDCAT					
2. NAME OF OPERATOR:						11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:					
3. ADDRESS OF OPERATOR: CITY _____ STATE _____ ZIP _____						PHONE NUMBER: _____		12. COUNTY		13. STATE UTAH	
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: AT TOP PRODUCING INTERVAL REPORTED BELOW: AT TOTAL DEPTH:						17. ELEVATIONS (DF, RKB, RT, GL):					
14. DATE SPUDDED:		15. DATE T.D. REACHED:		16. DATE COMPLETED: ABANDONED <input type="checkbox"/> READY TO PRODUCE <input type="checkbox"/>		21. DEPTH BRIDGE MD PLUG SET: TVD					
18. TOTAL DEPTH: MD TVD		19. PLUG BACK T.D.: MD TVD		20. IF MULTIPLE COMPLETIONS, HOW MANY? *		23. WAS WELL CORED? NO <input type="checkbox"/> YES <input type="checkbox"/> (Submit analysis) WAS DST RUN? NO <input type="checkbox"/> YES <input type="checkbox"/> (Submit report) DIRECTIONAL SURVEY? NO <input type="checkbox"/> YES <input type="checkbox"/> (Submit copy)					
22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)											
24. CASING AND LINER RECORD (Report all strings set in well)											
HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED		
25. TUBING RECORD											
SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)			
26. PRODUCING INTERVALS					27. PERFORATION RECORD						
FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS			
(A)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>			
(B)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>			
(C)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>			
(D)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>			
28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC. See attached for further information on #27 & #28.											
DEPTH INTERVAL		AMOUNT AND TYPE OF MATERIAL									
29. ENCLOSED ATTACHMENTS: All logs are submitted to UDOGM by vendor.								30. WELL STATUS:			
<input type="checkbox"/> ELECTRICAL/MECHANICAL LOGS				<input type="checkbox"/> GEOLOGIC REPORT		<input type="checkbox"/> DST REPORT		<input type="checkbox"/> DIRECTIONAL SURVEY			
<input type="checkbox"/> SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION				<input type="checkbox"/> CORE ANALYSIS		<input type="checkbox"/> OTHER: _____					

31. INITIAL PRODUCTION**INTERVAL A (As shown in item #26)**

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)**33. SUMMARY OF POROUS ZONES (Include Aquifers):**

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)

35. ADDITIONAL REMARKS (Include plugging procedure)

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) _____ TITLE _____

SIGNATURE _____ DATE _____

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

Attachment to Well Completion Report**Form 8 Dated October 3, 2014****Well Name: Matern Trust 4-21C4****Items #27 and #28 Continued****27. Perforation Record**

Interval (Top/Bottom – MD)	Size	No. of Holes	Perf. Status
9806'-9840'	.43	60	Open
9265'-9565'	.43	69	Open
9041'-9217'	.43	45	Open

28. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
9867'-10102'	20000 gal acid
9806'-9840'	5000 gal acid, 3000# 100 mesh, 145380# 20/40 TLC
9265'-9565'	30000 gal acid, 6000# WDA-221 Diverting Agent
9041'-9217'	21000 gal acid, 4000# WDA-221 Diverting Agent



Company: EP Energy
Well: Matern Trust 4-21C4
Location: Duchesne, UT
Rig: Precision 406

Job Number:
Mag Decl.:
Dir Driller:
MWD Eng:

Calculation Method Minimum Curvature
Proposed Azimuth 0.00
Depth Reference KB
Tie Into: Gyro/MWD

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)	E/W (ft)	Distance (ft)	Direction Azimuth			
Tie In	0.00	0.00	0.00										
1	100.00	0.29	149.62	100.00	100.00	-0.22	0.22 S	0.13 E	0.25	149.62	0.29	0.29	149.62
2	200.00	0.27	154.23	100.00	200.00	-0.64	0.64 S	0.36 E	0.74	151.08	0.03	-0.02	4.62
3	300.00	0.37	153.32	100.00	300.00	-1.14	1.14 S	0.60 E	1.29	152.21	0.10	0.10	-0.91
4	400.00	0.34	192.71	100.00	399.99	-1.71	1.71 S	0.68 E	1.84	158.34	0.24	-0.03	39.39
5	500.00	0.30	167.85	100.00	499.99	-2.25	2.25 S	0.67 E	2.35	163.43	0.14	-0.04	-24.86
6	600.00	0.24	183.40	100.00	599.99	-2.71	2.71 S	0.71 E	2.80	165.30	0.09	-0.06	15.55
7	700.00	0.47	185.41	100.00	699.99	-3.32	3.32 S	0.66 E	3.39	168.77	0.23	0.23	2.02
8	800.00	0.55	166.83	100.00	799.99	-4.20	4.20 S	0.73 E	4.26	170.12	0.18	0.09	-18.59
9	900.00	0.75	183.48	100.00	899.98	-5.32	5.32 S	0.80 E	5.38	171.43	0.27	0.20	16.66
10	1000.00	0.63	207.37	100.00	999.97	-6.46	6.46 S	0.51 E	6.48	175.50	0.31	-0.12	23.89
11	1100.00	0.79	189.54	100.00	1099.97	-7.62	7.62 S	0.14 E	7.62	178.94	0.27	0.15	-17.84
12	1200.00	0.85	194.46	100.00	1199.96	-9.01	9.01 S	0.16 W	9.02	181.00	0.09	0.06	4.92
13	1300.00	0.80	201.42	100.00	1299.94	-10.38	10.38 S	0.59 W	10.39	183.28	0.11	-0.05	6.96
14	1400.00	0.63	228.52	100.00	1399.94	-11.38	11.38 S	1.26 W	11.45	186.30	0.37	-0.17	27.10
15	1500.00	0.66	225.64	100.00	1499.93	-12.15	12.15 S	2.08 W	12.32	189.70	0.05	0.04	-2.88
16	1600.00	0.98	230.27	100.00	1599.92	-13.10	13.10 S	3.15 W	13.47	193.51	0.33	0.32	4.63
17	1635.00	0.95	244.74	35.00	1634.92	-13.41	13.41 S	3.64 W	13.90	195.18	0.70	-0.09	41.35
18	1764.00	1.06	238.71	129.00	1763.90	-14.49	14.49 S	5.62 W	15.54	201.21	0.12	0.09	-4.68
19	1860.00	2.16	279.44	96.00	1859.86	-14.65	14.65 S	8.17 W	16.77	209.14	1.59	1.15	42.43
20	1957.00	4.51	278.58	97.00	1956.69	-13.78	13.78 S	13.74 W	19.46	224.92	2.42	2.42	-0.89
21	2052.00	4.28	276.33	95.00	2051.41	-12.83	12.83 S	20.96 W	24.58	238.52	0.30	-0.24	-2.37
22	2148.00	4.05	275.10	96.00	2147.16	-12.14	12.14 S	27.90 W	30.42	246.49	0.26	-0.24	-1.28
23	2245.00	4.79	270.70	97.00	2243.87	-11.78	11.78 S	35.36 W	37.27	251.57	0.84	0.76	-4.54
24	2340.00	4.92	268.00	95.00	2338.53	-11.88	11.88 S	43.39 W	44.99	254.69	0.28	0.14	-2.84
25	2437.00	4.61	261.65	97.00	2435.19	-12.59	12.59 S	51.41 W	52.93	256.24	0.63	-0.32	-6.55
26	2532.00	4.41	259.30	95.00	2529.90	-13.82	13.82 S	58.77 W	60.38	256.77	0.29	-0.21	-2.47
27	2629.00	4.44	259.33	97.00	2626.61	-15.21	15.21 S	66.13 W	67.85	257.05	0.03	0.03	0.03
28	2725.00	4.21	256.90	96.00	2722.33	-16.69	16.69 S	73.21 W	75.09	257.15	0.31	-0.24	-2.53
29	2821.00	4.64	273.82	96.00	2818.05	-17.23	17.23 S	80.52 W	82.34	257.92	1.43	0.45	17.63
30	2917.00	4.40	266.60	96.00	2913.75	-17.19	17.19 S	88.07 W	89.73	258.95	0.64	-0.25	-7.52
31	3013.00	3.87	261.51	96.00	3009.50	-17.89	17.89 S	94.95 W	96.62	259.33	0.67	-0.55	-5.30
32	3109.00	4.27	265.94	96.00	3105.26	-18.62	18.62 S	101.72 W	103.41	259.63	0.53	0.42	4.61
33	3205.00	4.24	267.18	96.00	3201.00	-19.05	19.05 S	108.83 W	110.48	260.07	0.10	-0.03	1.29
34	3301.00	4.07	261.09	96.00	3296.75	-19.75	19.75 S	115.74 W	117.41	260.31	0.49	-0.18	-6.34
35	3397.00	3.96	263.34	96.00	3392.51	-20.66	20.66 S	122.40 W	124.13	260.42	0.20	-0.11	2.34



Company: EP Energy
Well: Matern Trust 4-21C4
Location: Duchesne, UT
Rig: Precision 406

Job Number:
Mag Decl.:
Dir Driller:
MWD Eng:

Calculation Method Minimum Curvature
Proposed Azimuth 0.00
Depth Reference KB
Tie Into: Gyro/MWD

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates			Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')	
							N/S (ft)		E/W (ft)	Distance (ft)	Direction Azimuth				
36	3494.00	4.12	266.73	97.00	3489.27	-21.25	21.25	S	129.20	W	130.94	260.66	0.30	0.16	3.49
37	3590.00	3.70	255.79	96.00	3585.05	-22.21	22.21	S	135.65	W	137.45	260.70	0.89	-0.44	-11.40
38	3686.00	3.32	250.52	96.00	3680.87	-23.90	23.90	S	141.27	W	143.28	260.40	0.52	-0.40	-5.49
39	3782.00	4.27	248.53	96.00	3776.66	-26.13	26.13	S	147.22	W	149.52	259.93	1.00	0.99	-2.07
40	3879.00	4.27	249.83	97.00	3873.39	-28.70	28.70	S	153.97	W	156.62	259.44	0.10	0.00	1.34
41	3975.00	4.14	244.93	96.00	3969.13	-31.40	31.40	S	160.46	W	163.51	258.93	0.40	-0.14	-5.10
42	4071.00	3.98	238.57	96.00	4064.89	-34.60	34.60	S	166.44	W	170.00	258.26	0.50	-0.17	-6.63
43	4167.00	3.83	229.30	96.00	4160.67	-38.43	38.43	S	171.72	W	175.97	257.38	0.68	-0.16	-9.66
44	4263.00	3.63	265.47	96.00	4256.47	-40.76	40.76	S	177.18	W	181.81	257.04	2.42	-0.21	37.68
45	4359.00	4.56	269.01	96.00	4352.23	-41.07	41.07	S	184.02	W	188.55	257.42	1.00	0.97	3.69
46	4456.00	4.20	256.91	97.00	4448.95	-41.94	41.94	S	191.34	W	195.88	257.64	1.02	-0.37	-12.47
47	4552.00	3.07	270.40	96.00	4544.75	-42.72	42.72	S	197.33	W	201.91	257.79	1.47	-1.18	14.05
48	4649.00	4.71	276.13	97.00	4641.53	-42.28	42.28	S	203.89	W	208.23	258.29	1.74	1.69	5.91
49	4744.00	3.97	263.48	95.00	4736.26	-42.23	42.23	S	211.04	W	215.22	258.68	1.27	-0.78	-13.32
50	4840.00	3.65	252.17	96.00	4832.05	-43.55	43.55	S	217.25	W	221.57	258.67	0.85	-0.33	-11.78
51	4936.00	5.49	262.57	96.00	4927.74	-45.08	45.08	S	224.71	W	229.19	258.66	2.09	1.92	10.83
52	5032.00	4.85	252.28	96.00	5023.35	-46.90	46.90	S	233.13	W	237.80	258.62	1.17	-0.67	-10.72
53	5128.00	3.64	253.26	96.00	5119.08	-49.02	49.02	S	239.92	W	244.87	258.45	1.26	-1.26	1.02
54	5224.00	3.37	270.98	96.00	5214.91	-49.85	49.85	S	245.66	W	250.66	258.53	1.16	-0.28	18.46
55	5321.00	4.34	281.94	97.00	5311.69	-49.04	49.04	S	252.10	W	256.82	258.99	1.25	1.00	11.30
56	5417.00	4.06	272.19	96.00	5407.43	-48.16	48.16	S	259.05	W	263.49	259.47	0.80	-0.29	-10.16
57	5513.00	3.34	262.56	96.00	5503.23	-48.39	48.39	S	265.22	W	269.59	259.66	0.99	-0.75	-10.03
58	5609.00	3.67	265.64	96.00	5599.05	-48.99	48.99	S	271.05	W	275.44	259.76	0.40	0.34	3.21
59	5705.00	4.53	268.37	96.00	5694.81	-49.33	49.33	S	277.91	W	282.25	259.94	0.92	0.90	2.84
60	5801.00	4.25	263.30	96.00	5790.52	-49.85	49.85	S	285.23	W	289.55	260.09	0.50	-0.29	-5.28
61	5897.00	3.91	255.78	96.00	5886.28	-51.07	51.07	S	291.93	W	296.37	260.08	0.66	-0.35	-7.83
62	5993.00	3.53	249.75	96.00	5982.08	-52.90	52.90	S	297.88	W	302.54	259.93	0.57	-0.40	-6.28
63	6089.00	4.03	264.25	96.00	6077.87	-54.26	54.26	S	304.01	W	308.81	259.88	1.12	0.52	15.10
64	6185.00	4.16	263.35	96.00	6173.63	-55.00	55.00	S	310.82	W	315.65	259.97	0.15	0.14	-0.94
65	6282.00	3.89	255.38	97.00	6270.39	-56.24	56.24	S	317.50	W	322.44	259.96	0.64	-0.28	-8.22
66	6377.00	3.72	251.93	95.00	6365.18	-58.01	58.01	S	323.55	W	328.71	259.84	0.30	-0.18	-3.63
67	6473.00	3.51	241.67	96.00	6460.99	-60.37	60.37	S	329.10	W	334.59	259.61	0.71	-0.22	-10.69
68	6569.00	3.39	234.45	96.00	6556.82	-63.41	63.41	S	333.99	W	339.96	259.25	0.47	-0.13	-7.52
69	6665.00	3.41	232.00	96.00	6652.65	-66.82	66.82	S	338.55	W	345.08	258.84	0.15	0.02	-2.55
70	6761.00	3.26	229.59	96.00	6748.48	-70.35	70.35	S	342.88	W	350.02	258.41	0.21	-0.16	-2.51
71	6856.00	3.17	219.83	95.00	6843.34	-74.11	74.11	S	346.62	W	354.46	257.93	0.58	-0.09	-10.27
72	6953.00	2.60	228.68	97.00	6940.21	-77.63	77.63	S	349.99	W	358.50	257.49	0.74	-0.59	9.12



Company: EP Energy
Well: Matern Trust 4-21C4
Location: Duchesne, UT
Rig: Precision 406

Job Number:
Mag Decl.:
Dir Driller:
MWD Eng:

Calculation Method Minimum Curvature
Proposed Azimuth 0.00
Depth Reference KB
Tie Into: Gyro/MWD

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates			Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')	
							N/S (ft)		E/W (ft)	Distance (ft)	Direction Azimuth				
73	7049.00	2.58	225.04	96.00	7036.11	-80.59	80.59	S	353.15	W	362.23	257.15	0.17	-0.02	-3.79
74	7144.00	2.59	208.11	95.00	7131.02	-83.99	83.99	S	355.68	W	365.46	256.71	0.80	0.01	-17.82
75	7240.00	2.46	204.78	96.00	7226.93	-87.78	87.78	S	357.56	W	368.18	256.21	0.20	-0.14	-3.47
76	7337.00	2.87	213.64	97.00	7323.82	-91.69	91.69	S	359.78	W	371.28	255.70	0.60	0.42	9.13
77	7433.00	2.53	205.02	96.00	7419.72	-95.61	95.61	S	362.01	W	374.42	255.21	0.55	-0.35	-8.98
78	7529.00	1.57	216.71	96.00	7515.65	-98.59	98.59	S	363.69	W	376.82	254.83	1.09	-1.00	12.18
79	7625.00	1.23	286.74	96.00	7611.63	-99.34	99.34	S	365.47	W	378.73	254.79	1.70	-0.35	72.95
80	7720.00	1.19	277.15	95.00	7706.61	-98.93	98.93	S	367.42	W	380.51	254.93	0.22	-0.04	-10.09
81	7817.00	0.95	236.77	97.00	7803.59	-99.24	99.24	S	369.09	W	382.20	254.95	0.80	-0.25	-41.63
82	7913.00	1.33	199.41	96.00	7899.58	-100.73	100.73	S	370.13	W	383.59	254.78	0.85	0.40	-38.92
83	8010.00	1.95	197.97	97.00	7996.54	-103.36	103.36	S	371.01	W	385.14	254.43	0.64	0.64	-1.48
84	8106.00	1.55	239.16	96.00	8092.49	-105.58	105.58	S	372.63	W	387.30	254.18	1.34	-0.42	42.91
85	8202.00	2.48	211.36	96.00	8188.44	-108.02	108.02	S	374.83	W	390.08	253.92	1.38	0.97	-28.96
86	8299.00	1.92	180.44	97.00	8285.37	-111.44	111.44	S	375.93	W	392.10	253.49	1.33	-0.58	-31.88
87	8394.00	3.16	168.15	95.00	8380.27	-115.59	115.59	S	375.41	W	392.80	252.89	1.42	1.31	-12.94
88	8490.00	1.64	242.68	96.00	8476.20	-118.81	118.81	S	376.08	W	394.40	252.47	3.28	-1.58	77.64
89	8587.00	1.80	311.03	97.00	8573.17	-118.45	118.45	S	378.47	W	396.57	252.62	2.00	0.16	70.46
90	8657.00	1.41	289.49	70.00	8643.14	-117.44	117.44	S	380.11	W	397.84	252.83	1.02	-0.56	-30.77
91	8800.00	1.18	266.12	143.00	8786.11	-116.95	116.95	S	383.23	W	400.68	253.03	0.40	-0.16	-16.34
92	8900.00	1.22	218.94	100.00	8886.09	-117.85	117.85	S	384.93	W	402.57	252.98	0.96	0.04	-47.18
93	9000.00	1.82	196.38	100.00	8986.05	-120.20	120.20	S	386.05	W	404.33	252.71	0.84	0.60	-22.56
94	9100.00	2.61	184.91	100.00	9085.98	-123.99	123.99	S	386.69	W	406.08	252.22	0.90	0.79	-11.47
95	9200.00	3.07	182.03	100.00	9185.85	-128.93	128.93	S	386.98	W	407.89	251.57	0.49	0.46	-2.88
96	9300.00	3.06	182.48	100.00	9285.71	-134.28	134.28	S	387.19	W	409.81	250.87	0.03	-0.01	0.44
97	9400.00	2.87	184.86	100.00	9385.58	-139.44	139.44	S	387.52	W	411.84	250.21	0.23	-0.19	2.38
98	9500.00	3.21	191.06	100.00	9485.44	-144.69	144.69	S	388.27	W	414.35	249.56	0.47	0.34	6.20
99	9600.00	3.14	180.95	100.00	9585.28	-150.17	150.17	S	388.85	W	416.84	248.88	0.56	-0.07	-10.12
100	9700.00	3.21	191.52	100.00	9685.13	-155.65	155.65	S	389.45	W	419.41	248.21	0.59	0.07	10.58
101	9800.00	3.03	176.87	100.00	9784.99	-161.03	161.03	S	389.87	W	421.82	247.56	0.82	-0.18	-14.66
102	9900.00	3.04	179.57	100.00	9884.85	-166.32	166.32	S	389.70	W	423.71	246.89	0.14	0.01	2.71
103	10000.00	3.16	178.57	100.00	9984.70	-171.72	171.72	S	389.62	W	425.78	246.21	0.13	0.12	-1.01
104	10100.00	3.21	176.53	100.00	10084.54	-177.27	177.27	S	389.38	W	427.83	245.52	0.12	0.05	-2.04
105	10200.00	3.18	180.14	100.00	10184.39	-182.84	182.84	S	389.21	W	430.02	244.84	0.20	-0.02	3.61
106	10300.00	3.24	177.78	100.00	10284.23	-188.45	188.45	S	389.11	W	432.34	244.16	0.14	0.06	-2.36
107	10400.00	3.24	178.09	100.00	10384.07	-194.09	194.09	S	388.91	W	434.65	243.48	0.02	0.00	0.32
108	10500.00	3.07	181.07	100.00	10483.92	-199.60	199.60	S	388.86	W	437.10	242.83	0.23	-0.17	2.98
109	10600.00	3.18	176.39	100.00	10583.77	-205.04	205.04	S	388.74	W	439.50	242.19	0.28	0.11	-4.68



Company: EP Energy
Well: Matern Trust 4-21C4
Location: Duchesne, UT
Rig: Precision 406

Job Number: _____
Mag Decl.: _____
Dir Driller: _____
MWD Eng: _____

Calculation Method Minimum Curvature
Proposed Azimuth 0.00
Depth Reference KB
Tie Into: Gyro/MWD

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates			Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)	E/W (ft)		Distance (ft)	Direction Azimuth			
110	10700.00	2.99	177.35	100.00	10683.63	-210.41	210.41 S	388.44 W		441.77	241.56	0.19	-0.19	0.95
111	10800.00	2.84	179.61	100.00	10783.50	-215.50	215.50 S	388.31 W		444.10	240.97	0.19	-0.15	2.27
112	10900.00	3.01	184.74	100.00	10883.37	-220.59	220.59 S	388.51 W		446.76	240.41	0.31	0.17	5.12
113	11000.00	3.21	182.73	100.00	10983.22	-226.01	226.01 S	388.86 W		449.76	239.83	0.23	0.20	-2.01
114	11100.00	3.18	183.72	100.00	11083.06	-231.57	231.57 S	389.17 W		452.86	239.25	0.06	-0.03	0.99
115	11200.00	3.10	186.77	100.00	11182.91	-237.03	237.03 S	389.67 W		456.10	238.69	0.19	-0.08	3.05
116	11271.00	3.48	190.64	71.00	11253.80	-241.06	241.06 S	390.29 W		458.73	238.30	0.61	0.53	5.45
117	11422.00	3.48	190.64	151.00	11404.52	-250.06	250.06 S	391.98 W		464.95	237.47	0.00	0.00	0.00

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 1001 Louisiana, Houston, TX, 77002		8. WELL NAME and NUMBER: Matern Trust 4-21C4
PHONE NUMBER: 713 997-5038 Ext		9. API NUMBER: 43013528410000
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1707 FSL 1907 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW Section: 21 Township: 03.0S Range: 04.0W Meridian: U		9. FIELD and POOL or WILDCAT: ALTAMONT
		COUNTY: DUCHESNE
		STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 4/3/2016	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"><input type="checkbox"/> ACIDIZE</div> <div style="width: 33%;"><input type="checkbox"/> ALTER CASING</div> <div style="width: 33%;"><input type="checkbox"/> CASING REPAIR</div> <div style="width: 33%;"><input type="checkbox"/> CHANGE TO PREVIOUS PLANS</div> <div style="width: 33%;"><input type="checkbox"/> CHANGE TUBING</div> <div style="width: 33%;"><input type="checkbox"/> CHANGE WELL NAME</div> <div style="width: 33%;"><input type="checkbox"/> CHANGE WELL STATUS</div> <div style="width: 33%;"><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS</div> <div style="width: 33%;"><input type="checkbox"/> CONVERT WELL TYPE</div> <div style="width: 33%;"><input type="checkbox"/> DEEPEN</div> <div style="width: 33%;"><input type="checkbox"/> FRACTURE TREAT</div> <div style="width: 33%;"><input type="checkbox"/> NEW CONSTRUCTION</div> <div style="width: 33%;"><input type="checkbox"/> OPERATOR CHANGE</div> <div style="width: 33%;"><input type="checkbox"/> PLUG AND ABANDON</div> <div style="width: 33%;"><input type="checkbox"/> PLUG BACK</div> <div style="width: 33%;"><input type="checkbox"/> PRODUCTION START OR RESUME</div> <div style="width: 33%;"><input type="checkbox"/> RECLAMATION OF WELL SITE</div> <div style="width: 33%;"><input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION</div> <div style="width: 33%;"><input type="checkbox"/> REPERFORATE CURRENT FORMATION</div> <div style="width: 33%;"><input type="checkbox"/> SIDETRACK TO REPAIR WELL</div> <div style="width: 33%;"><input type="checkbox"/> TEMPORARY ABANDON</div> <div style="width: 33%;"><input type="checkbox"/> TUBING REPAIR</div> <div style="width: 33%;"><input type="checkbox"/> VENT OR FLARE</div> <div style="width: 33%;"><input type="checkbox"/> WATER DISPOSAL</div> <div style="width: 33%;"><input type="checkbox"/> WATER SHUTOFF</div> <div style="width: 33%;"><input type="checkbox"/> SI TA STATUS EXTENSION</div> <div style="width: 33%;"><input type="checkbox"/> APD EXTENSION</div> <div style="width: 33%;"><input type="checkbox"/> WILDCAT WELL DETERMINATION</div> <div style="width: 33%;"><input type="checkbox"/> OTHER</div> </div>
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	
<input type="checkbox"/> SPUD REPORT Date of Spud:	
<input type="checkbox"/> DRILLING REPORT Report Date:	
OTHER: <input style="width: 100px;" type="text"/>	

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Please see attached recompletion procedure along with before and after wellbore diagrams.

Approved by the
March 29, 2016
Oil, Gas and Mining

Date: _____

By: Derek Duff

NAME (PLEASE PRINT) Linda Renken	PHONE NUMBER 713 997-5138	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 3/24/2016	

Matern Trust 4-21 C4Recom Summary Procedure

- POOH with rods, pump & tubing. Inspect/Repair/Re-furbish as needed. Replace any bad tubing and joints of rods.
- Set 15k CBP for 5" 18# casing @ 8,755' w/ 15' cement dump bailed on plug. Test casing to frac pressure.
- Perforate cmt squeeze holes @ 8,715'. Set 5" CMT retainer @ 8,711'. Squeeze 25 sx cmt to isolate liner lap.
- Stage 1:
 - Perforate new UW/LGR interval from **8,588' – 8,690'**.
 - Acid Frac Perforations with **12,000** gals 15% HCl acid (Stage 1 Recom).
- Stage 2:
 - RIH with 5" CBP & set @ **8,535'**.
 - Perforate new LGR interval from **8,464' – 8,484'**.
 - Acid Frac Perforations with 5,000 gals 15% HCl acid (Stage 2 Recom).
- Stage 3:
 - RIH with 7" CBP & set @ **8,125'**.
 - Perforate new LGR interval from **8,022' – 8,110'**.
 - Acid Frac Perforations with **12,000** gals 15% HCl acid (Stage 3 Recom).
- Stage 4:
 - RIH w/ 7" CBP & set @ **7,867'**.
 - Perforate new LGR interval from **7,647' – 7,852'**.
 - Prop Frac perforations with **115,000** lbs 30/50 prop (w/ **6,000** lbs 100 mesh & **9,000** gals 15% HCl acid) (Stage 4 Recom).
- Clean out well drilling up (2) 7" CBPs and (1) 5" CBP, leaving 5" 15k CBP @ 8,755' w/ 15' CMT. Top perf BELOW plugs @ 9,041'.
- RIH w/ production tubing and rods.
- Clean location and resume production.

Current WBS**Current Pumping Wellbore Schematic**

Well Name: **Matern Trust 4-21C4**
 Company Name: **EP Energy**
 Field, County, State: **Altamont, Duchesne, UT**
 Surface Location: **Lat: 40 12' 13.171" N Long: 110 20' 38.809" W**
 Producing Zone(s): **UW**

Last Updated: **9/22/2014**
 By: **Tomova**
 TD: **11,412**
 API: **43013528410000**
 AFE: **161605**

8.43 ppg KCL substitute (Clay Webb Water) water in the wellbore

258 Jts 2 7/8" 6.5# N-80 8rd Tubing

ROD DETAIL - 4.3 SPM

1 1/2" x 40' Polished Rod
 ~51 (1,275') - 1" EL Rods w/ 4 gpr
 40 (1,000') - 1" EL Rods w/ 6 gpr
 50 (1,250') - 7/8" EL Rods w/ 4 gpr
 60 (1,500') - 7/8" EL Rods w/ 6 gpr
 166 (4,350') - 3/4" EL Rods w/ 4 gpr
 17 (425') - 1 1/2" Sinker "K" Bars
 2" x 1-1/2" x 38' 2 stg HVR Insert Pump

13-3/8" 54.5# J-55 STC @ 630 ft. MD

Estimated TOC at: 5,550 ft MD CBL

9-5/8" 40# N-80 LTC @ 1707 ft. MD

2-7/8" x 2-3/8" Crossover @ 8,400'

~39 jts of 2-3/8" 4.7# N-80 8rd Tubing

Top of Liner at: 8,504 ft MD CBL

7" 29# HCP-110 LTC @ 8720 ft. MD

Drift ID = 6.059"

Tubing Anchor @ 9,675'

4 jts 2-3/8" 4.7# N-80 8rd Tubing

Seating Nipple @ ~9,800'

2' x 2 3/8" Tubing Sub

D2305 Desander

2 jt 2-3/8" Mud Anchor

EOT @ ~9,900'

Initial Completion Perf Information

Stage #7 9041 - 9217 15' /45 shots
 21,000 gal HCL
Stage #6 9265 - 9565 23' /69 shots
 30,000 gal HCL
Stage #5 9608 - 9840 20' /60 shots
 5000 gal HCL & 145000 lbs TLC 30/50
Stage #4 9867 - 10102 23' /69 shots
 20000 gal HCL
Stage #3 10160 - 10387 18' /54 shots
 5000 gal HCL & 130000 lbs TLC 30/50
Stage #2 10457 - 10778 22' /66 shots
 5000 gal HCL & 130000 lbs TLC 30/50
Stage #1 10908 - 11223 20' /60 shots
 5000 gal HCL & 130000 lbs TLC 30/50

Cement from 9600' to 9742' MD

TOC @ 10,250 ft MD

Marker Joint 1 @: 9,358 ft MD CBL

Marker Joint 2 @: 10,424 ft MD CBL

Landing Collar @ 11,312 ft

Float Collar @ 11,361 ft

Float Shoe @ 11,412 ft

5" 18# P-110 STL @ 8504 - 111412 ft. MD

Drift ID = 4.151"

Proposed WBS**Proposed Wellbore Schematic**

Well Name: **Matern Trust 4-21C4**
 Company Name: **EP Energy**
 Field, County, State: **Altamont, Duchesne, UT**
 Surface Location: **Lat: 40 12' 13.171" N Long: 110 20' 38.809" W**
 Producing Zone(s): **UW**

Last Updated: **3/24/2016**
 By: **Fondren**
 TD: **11,412**
 API: **43013528410000**
 AFE:

8.43 ppg KCL substitute (Clay Webb Water) water in the

April '16 Recom
STG 4: 7,647' - 7,852' (22'/66 holes) 9,000 Gals HCL + 115,000# 30/50
STG 3: 8,022' - 8,110' (19'/57 holes) 12,000 Gals HCL
STG 2: 8,464' - 8,484' (10'/30 holes) 5,000 Gals HCL
STG 1: 8,588' - 8,690' (20'/60 holes) 12,000 Gals HCL

Initial Completion Perf Information

Stage #7 9041 - 9217 15' /45 shots
21,000 gal HCL

Stage #6 9265 - 9565 23' /69 shots
30,000 gal HCL

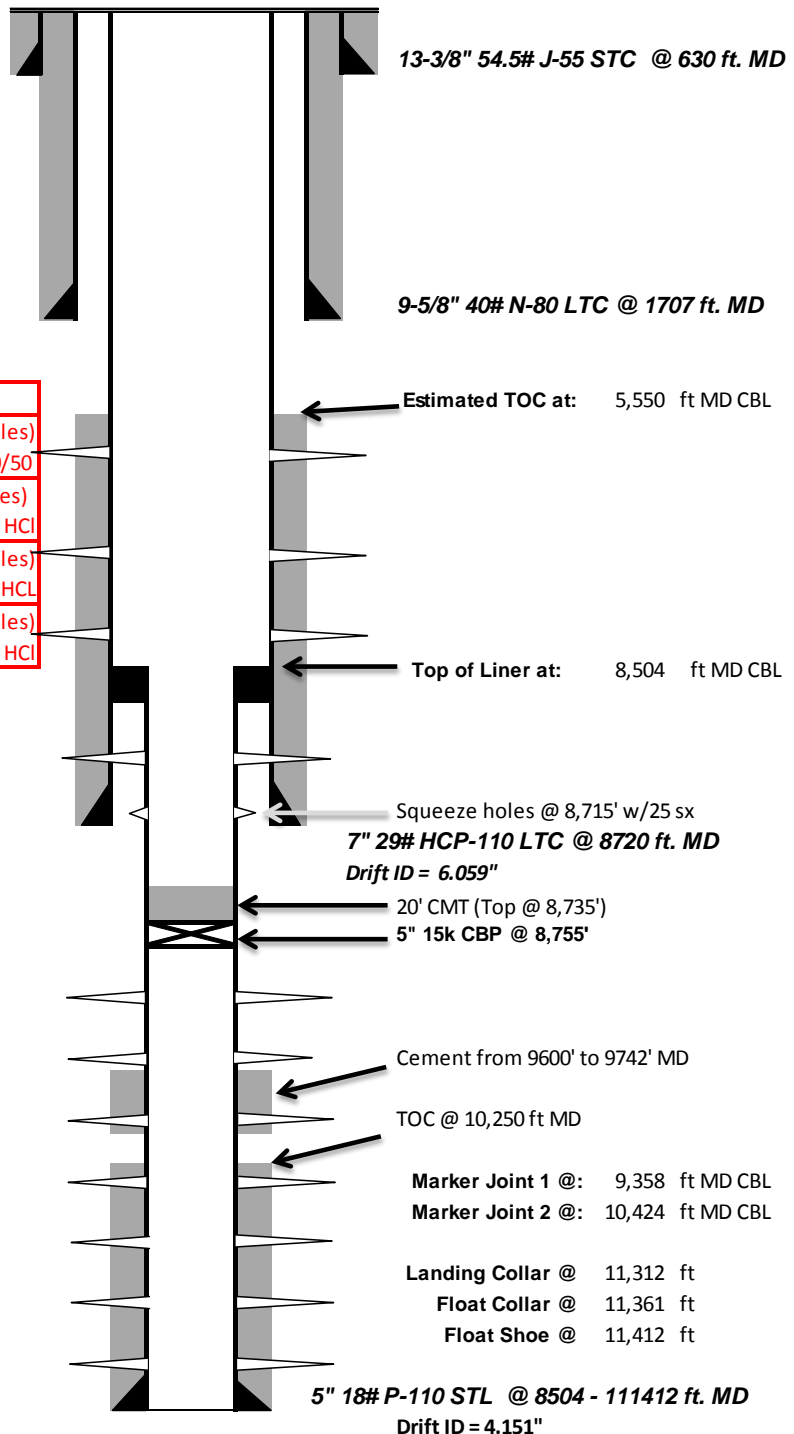
Stage #5 9608 - 9840 20' /60 shots
5000 gal HCL & 145000 lbs TLC 30/50

Stage #4 9867 - 10102 23' /69 shots
20000 gal HCL

Stage #3 10160 - 10387 18' /54 shots
5000 gal HCL & 130000 lbs TLC 30/50

Stage #2 10457 - 10778 22' /66 shots
5000 gal HCL & 130000 lbs TLC 30/50

Stage #1 10908 - 11223 20' /60 shots
5000 gal HCL & 130000 lbs TLC 30/50



STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: Matern Trust 4-21C4	
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.	9. API NUMBER: 43013528410000	
3. ADDRESS OF OPERATOR: 1001 Louisiana, Houston, TX, 77002	PHONE NUMBER: 713 997-5138 Ext	9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1707 FSL 1907 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW Section: 21 Township: 03.0S Range: 04.0W Meridian: U		COUNTY: DUCHESNE
		STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 9/12/2016	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input type="text" value="Drill Out 2 Plugs"/>
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input type="checkbox"/> DRILLING REPORT Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Please see attached the proposed procedure along with current and post WBD's.

Approved by the
 September 08, 2016
 Oil, Gas and Mining

Date: _____

By: Derek Duff

NAME (PLEASE PRINT) Linda Renken	PHONE NUMBER 713 997-5138	TITLE Sr. Regulatory Analyst
SIGNATURE N/A		DATE 9/6/2016

Matern Trust 4-21 C4 Drillout Summary Procedure

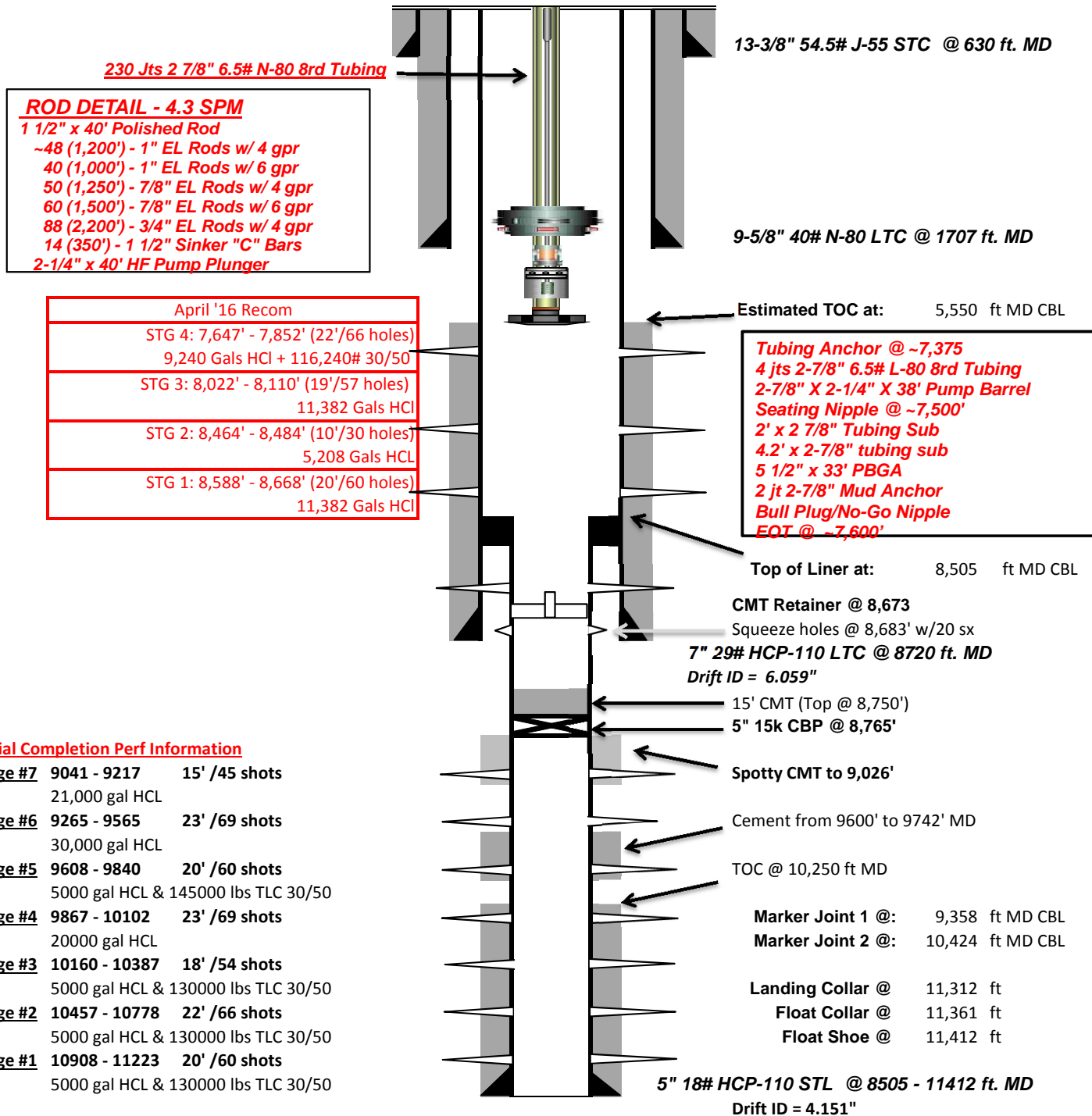
- POOH with rods, pump & tubing. Inspect/Repair/Re-furbish as needed. Replace any bad tubing and joints of rods.
- Pick up rock bit, TIH and drill up (1) 5" CMT Retainer @ 8,673' and (1) 5" CBP @ 8,765' w 15' cmt. Note top perf BELOW plug is @ 9,041'. Continue cleaning out well to PBTD @ 11,312'.
- Pull out of hole with work string and rock bit.
- RIH w/ production tubing and rods according to WBD.
- Clean location and resume production.



Current RECOM Artificial Lift Wellbore Schematic

Well Name: **Matern Trust 4-21C4**
 Company Name: **EP Energy**
 Field, County, State: **Altamont, Duchesne, UT**
 Surface Location: **Lat: 40 12' 13.171" N Long: 110 20' 38.809" W**
 Producing Zone(s): **UW**

Last Updated: **3/29/2016**
 By: **Fondren/Tomova**
 TD: **11,412**
 API: **43013528410000**
 AFE:





Proposed RECOM DO Artificial Lift Wellbore Schematic

Well Name: **Matern Trust 4-21C4**
 Company Name: **EP Energy**
 Field, County, State: **Altamont, Duchesne, UT**
 Surface Location: **Lat: 40 12' 13.171" N Long: 110 20' 38.809" W**
 Producing Zone(s): **UW**

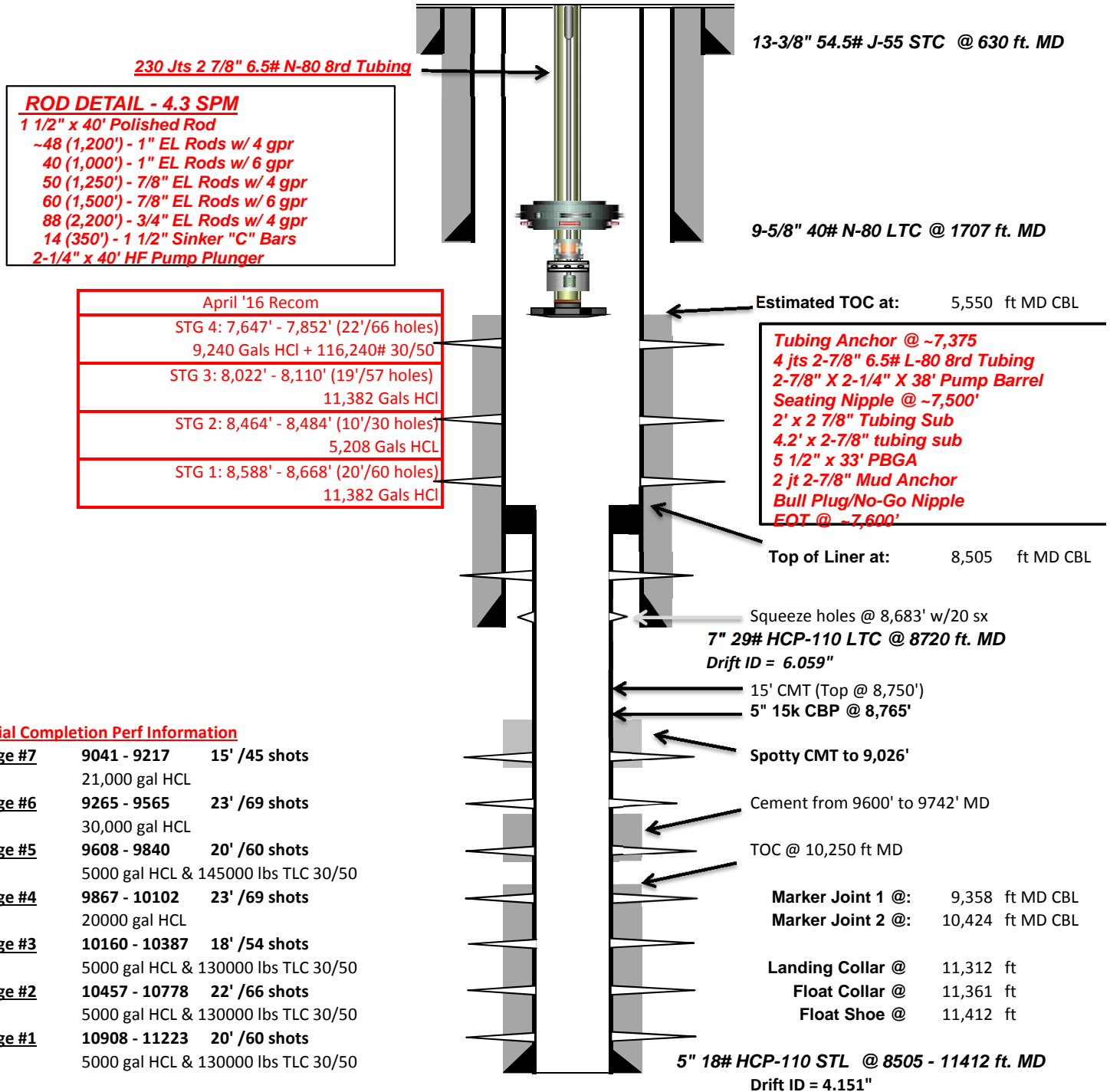
Last Updated: **3/29/2016**

By: **Fondren/Tomova**

TD: **11,412**

API: **43013528410000**

AFE:



STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MININGAMENDED REPORT ☐ FORM 8
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG						5. LEASE DESIGNATION AND SERIAL NUMBER:					
						6. IF INDIAN, ALLOTTEE OR TRIBE NAME					
						7. UNIT or CA AGREEMENT NAME					
						8. WELL NAME and NUMBER:					
1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> OTHER _____						9. API NUMBER:					
b. TYPE OF WORK: NEW WELL <input type="checkbox"/> HORIZ. LATS. <input type="checkbox"/> DEEP-EN <input type="checkbox"/> RE-ENTRY <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER _____						10 FIELD AND POOL, OR WILDCAT					
2. NAME OF OPERATOR:						11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: U.S.B. & M.					
3. ADDRESS OF OPERATOR: CITY _____ STATE _____ ZIP _____						PHONE NUMBER: _____		12. COUNTY		13. STATE UTAH	
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: AT TOP PRODUCING INTERVAL REPORTED BELOW: AT TOTAL DEPTH:						17. ELEVATIONS (DF, RKB, RT, GL):					
14. DATE SPUDDED:		15. DATE T.D. REACHED:		16. DATE COMPLETED:		ABANDONED <input type="checkbox"/> READY TO PRODUCE <input type="checkbox"/>					
18. TOTAL DEPTH: MD _____ TVD _____		19. PLUG BACK T.D.: MD _____ TVD _____		20. IF MULTIPLE COMPLETIONS, HOW MANY? *		21. DEPTH BRIDGE MD _____ PLUG SET: TVD _____					
22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)						23. WAS WELL CORED? NO <input type="checkbox"/> YES <input type="checkbox"/> (Submit analysis) WAS DST RUN? NO <input type="checkbox"/> YES <input type="checkbox"/> (Submit report) DIRECTIONAL SURVEY? NO <input type="checkbox"/> YES <input type="checkbox"/> (Submit copy)					
24. CASING AND LINER RECORD (Report all strings set in well)											
HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED		
25. TUBING RECORD											
SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)			
26. PRODUCING INTERVALS					27. PERFORATION RECORD						
FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS			
(A)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>			
(B)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>			
(C)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>			
(D)								Open <input type="checkbox"/> Squeezed <input type="checkbox"/>			
28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.											
DEPTH INTERVAL		AMOUNT AND TYPE OF MATERIAL									
29. ENCLOSED ATTACHMENTS:								30. WELL STATUS:			
<input type="checkbox"/> ELECTRICAL/MECHANICAL LOGS <input type="checkbox"/> GEOLOGIC REPORT <input type="checkbox"/> DST REPORT <input type="checkbox"/> DIRECTIONAL SURVEY <input type="checkbox"/> SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION <input type="checkbox"/> CORE ANALYSIS <input type="checkbox"/> OTHER: _____											

31. INITIAL PRODUCTION**INTERVAL A (As shown in item #26)**

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)**33. SUMMARY OF POROUS ZONES (Include Aquifers):**

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)

35. ADDITIONAL REMARKS (Include plugging procedure)

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) _____ TITLE _____

SIGNATURE _____ DATE _____

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

Attachment to Well Completion Report

Form 8 Dated: _

Well Name: _

Items #27 and #28 Continued

27. Perforation Record

Interval (Top/Bottom-MD)	Hole Size	No. of Holes	Perf. Status

28. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material

CENTRAL DIVISION

ALTAMONT FIELD
MATERN TRUST 4-21C4
MATERN TRUST 4-21C4
RECOMPLETE LAND

Operation Summary Report

Disclaimer: Although the information contained in this report is based on sound engineering practices, the copyright owner(s) does (do) not accept any responsibility whatsoever, in negligence or otherwise, for any loss or damage arising from the possession or use of the report whether in terms of correctness or otherwise. The application, therefore, by the user of this report or any part thereof, is solely at the user's own risk.

1 General

1.1 Customer Information

Company	CENTRAL DIVISION
Representative	
Address	

1.2 Well Information

Well	MATERN TRUST 4-21C4		
Project	ALTAMONT FIELD	Site	MATERN TRUST 4-21C4
Rig Name/No.		Event	RECOMPLETE LAND
Start date	4/1/2016	End date	4/21/2016
Spud Date/Time	4/24/2014	UWI	MATERN TRUST 4-21C4
Active datum	KB @5,879.3usft (above Mean Sea Level)		
Afe No./Description	166594/56459 / MATERN TRUST 4-21C4		

2 Summary

2.1 Operation Summary

Date	Time Start-End		Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
4/2/2016	9:30	13:00	3.50	MIRU	01		P		MOVE RIG TO LOCATION. SERVICE RIG. SLIDE UNIT & RU RIG
	13:00	15:00	2.00	WOR	18		P		ATTEMPT TO WORK PUMP OFF SEAT WHILE PUMPING 200 BBLS 2% KCL WTR DOWN CSG
	15:00	18:00	3.00	WOR	39		P		BACK OFF ROD STRING. TOOH W/ 88 1" RODS, 109 7/8" RODS & 136 3/4" RODS LAYING DOWN 48 3/4" RODS AS PER NEW ROD STAR. 38 3/4" RODS, 17 WEIGHT RODS & PUMP IN HOLE. SDFN
4/3/2016	6:00	6:00	24.00	WOR	18		P		NO ACTIVITY TODAY. SHUT DOWN FOR WEEKEND
4/4/2016	6:00	6:00	24.00	WOR	18		P		NO ACTIVITY TODAY. SHUT DOWN FOR WEEKEND
4/5/2016	6:00	7:00	1.00	WOR	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON WIRELINE SAFETY. FILL OUT & REVIEW JSA
	7:00	8:30	1.50	WLWORK	21		P		RU WIRELINE UNIT. RIH & PERF TBG @ 8370'. POOH W/ TBG PUNCHER & RD WIRELINE UNIT
	8:30	9:30	1.00	WOR	16		P		ND WELL HEAD. INSTALL TBG HANGER & PUP JT. RE LAND TBG. NU BOP & TEST TO 5000 PSI
	9:30	15:30	6.00	WOR	39		P		RELEASE TAC. RU SCANNERS TOOH W/ 258 JTS 2-7/8"EUE TBG. SCAN RESULTS 254 JTS YELLOW BAND TBG, 2 JTS BLUE BAND TBG & 2 JTS RED BAND TBG. RD TBG SCANNERS. STRIP OUT OF HOLE W/ REMAINING 2-3/8" EUE TBG, 3/4" RODS, WEIGHT RODS, PUMP, TAC & BHA.
	15:30	19:30	4.00	WLWORK	27		P		RIH W/ 4" OD GUAGE RING TO 8770'. RIH & SET MAGNUM 15K CBP @ 8765'. DUMP BAIL 15' CMT ON CBP. RD WIRELINE UNIT. SDFN
4/6/2016	6:00	7:00	1.00	WOR	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON NIPPLING UP FRAC VALVE. FILL OUT & REVIEW JSA
	7:00	10:00	3.00	WOR	16		P		ND BOP. NU FRAC VALVE. NU BOP. TEST FRAC VALVE TO 10000 PSI. TEST BOP TO 4800 PSI. FILL CSG W/ 95 BBLS 2% KCL WTR. PRESSURE TEST CSG TO 8000 PSI FOR 15 MINUTES. TESTED GOOD. RD TESTERS.
	10:00	16:00	6.00	WLWORK	27		P		RU WIRELINE UNIT. RIH W/ 6" OD GUAGE RING TO LINER TOP @ 8505'. POOH. RIH & PERFORATE 5" CSG FROM 8683' TO 8684' 6 JSPF, WHILE HOLDING 1000 PSI ON CSG. PRESSURE SLOWLY DROPPED TO 0 PSI. ESTABLISH INJECTION RATE OF 2700 PSI @ 1 BPM. RIH & SET CICR @ 8673'. RD WIRELINE UNIT.
	16:00	19:00	3.00	WOR	39		P		RU HYDROTESTER. RIH W/ STINGER, 7 JTS 2-3/8"EUE TBG, X-OVER, 2-7/8"SEAT NIPPLE & 72 JTS 2-7/8"EUE TBG, TESTING ALL 2-7/8"EUE TBG TO 8500 PSI. SDFN

2.1 Operation Summary (Continued)

Date	Time Start-End		Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
4/7/2016	6:00	7:00	1.00	WOR	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON HYDROTESTING TBG. FILL OUT & REVIEW JSA
	7:00	12:00	5.00	WOR	39		P		TIH W/ 182 JTS 2-7/8"EUE TBG, HYDROTESTING TO 8500 PSI. RD HYDROTESTER. PU 5 JTS INSPECTED 2-7/8"EUE TBG. STING INTO CICR @ 8673'.
	12:00	16:00	4.00	WOR	18		P		RU HALIBURTON CMT EQUIPMENT. ESTABLISH INJECTION RATE OF 1 BPM @ 3285 PSI. UNSTING FROM RETAINER PUMP 1 BBL FRESH WTR, 10 BBLS SUPERFLUSH 101 & 1 BBL FRESH WTR & SPOT 1 BBL FROM END OF TBG WHILE HOLDING 700 PSI ON ANNULUS. STING INTO RETAINER. PUMP SUPERFLUSH 101 & 1 BBL FRESH WTR INTO RETAINER. FINAL PRESSURE 4872 PSI. STING OUT OF RETAINER. REVERSE CIRCULATE 2 TBG VOLUMES TO ENSURE THERE IS NO REACTIVE SPACER IN TBG. MIX & PUMP 40 SX (8 BBLS) 15.8 PPG 1.15 YIELD CMT. PUMP 5 BBLS FRESH WTR, 8 BBLS CMT & 5 BBLS FRESH WTR. DISPLACE CMT 2 BBLS FROM END OF TBG. STING INTO RETAINER. PUMP 2 BBLS FRESH WTR & 4 BBLS CMT INTO RETAINER. FINAL PRESSURE 3054 PSI. STING OUT OF RETAINER. REVERSE CIRCULATE 2 TBG VOLUMES, RECOVERING 4 BBLS CMT AFTER PUMPING TBG VOLUME. RD HALIBURTON.
	16:00	18:00	2.00	WOR	39		P		TOOH W/ 160 JTS 2-7/8"EUE TBG. SDFN
4/8/2016	6:00	7:00	1.00	WOR	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON TRIPPING TBG. FILL OUT & REVIEW JSA
	7:00	8:00	1.00	WOR	39		P		TOOH W/ 98 JTS 2-7/8"EUE TBG, SEAT NIPPLE, X-OVER, 7 JTS 2-3/8"EUE TBG & STINGER.
	8:00	13:00	5.00	WOR	16		P		RD WORK FLOOR. PRESSURE TEST CSG TO 6000 PSI FOR 15 MINUTES. ND BOP. NU & TEST FRAC STACK.
	13:00	15:30	2.50	STG01	21		P		RU WIRELINE UNIT. RIH & PERF STG 1 PERFORATIONS FROM 8588' TO 8668' USING PERFECTA DEEP PENETRATING 22 GRAM CHARGES, 3 JSPF & 120 DEGREE PHASING, WHILE HOLDING 1000 PSI ON CSG. PRESSURE DID NOT CHANGE WHILE PERFORATING. SDFN
4/9/2016	6:00	6:00	24.00	STG01	18		P		NO ACTIVITY TODAY. WAITING ON FRAC EQUIPMENT
4/10/2016	6:00	6:00	24.00	STG01	18		P		HEAT FRAC WTR & RU FRAC EQUIPMENT
4/11/2016	6:00	6:00	24.00	STG01	18		P		FINISH RIGGING UP FRAC EQUIPMENT. MIX ACID
4/12/2016	6:00	8:00	2.00	STG01	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON FRAC SAFETY. FILL OUT & REVIEW JSA'S
	8:00	10:00	2.00	STG01	35		P		PRESSURE TEST LINES TO 9630 PSI. BREAK DOWN STG 1 PERFORATIONS @ 4215 PSI PUMPING 6.1 BPM. PUMP 107BBLS THEN PERFORM STEP DOWN TEST. ISIP 2832 PSI. FG .762. 5 MIN 2610 PSI. 10 MIN 2512 PSI. 15 MIN 2471 PSI. TREAT STAGE 2 PERFORATIONS W/ 11382 GALLONS 15% HCL ACID USING 55 BAL SEALERS DROPPING 11 BALLS EVERY 2000 GALLONS BEGINNING AT 2000 GALLONS, FLUSHING TO BOTTOM PERF + 10 BBLS. SAW FAIR DIVERSION. MAX PSI 7815 PSI. MAX RATE 53.25 BPM. AVG PSI 5475 PSI. AVG RATE 43.9 BPM 2900 PSI. FINAL FG .769. 5 MIN 2671 PSI. 10 MIN 2615. TURN WELL OVER TO WIRELINE. 717 BBLS FLUID TO RECOVER
	10:00	11:30	1.50	STG02	21		P		RIH & SET CBP @ 8535'. PERFORATE STG 2 PERFORATIONS FROM 8464' TO 8484' USING PERFECTA DEEP PENETRATING 22 GRAM CHARGES, 3 JSPF & 120 DEGREE PHASING. PRESSURE DROPPED FROM 2400 PSI TO 2000 PSI WHILE PERFORATING.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
	11:30 12:15	0.75	STG02	35		P		PRESSURE TEST LINES TO 9584 PSI. BREAK DOWN STG 2 PERFORATIONS @ 2838 PSI PUMPING 5.8 BPM. PERFORM STEP DOWN TEST. ISIP 2543 PSI. FG .734. 5 MIN 2428 PSI. 10 MIN 2412 PSI. 15 MIN 2402 PSI. TREAT STAGE 2 PERFORATIONS W/ 5208 GALLONS 15% HCL ACID USING 55 BAL SEALERS DROPPING 11 BALLS EVERY 1250 GALLONS BEGINNING AT 1250 GALLONS, FLUSHING TO BOTTOM PERF + 10 BBLS. SAW FAIR DIVERSION. MAX PSI 7766 PSI. MAX RATE 54.44 BPM. AVG PSI 3922 PSI. AVG RATE 4680 BPM. ISIP 2611 PSI. FINAL FG .68. 5 MIN 2450 PSI. 10 MIN 2384. TURN WELL OVER TO WIRELINE. 526 BBLS FLUID TO RECOVER
	12:15 14:00	1.75	STG03	21		P		RIH & SET CBP @ 8128'.PERFORATE STG 3 PERFORATIONS FROM 8022' TO 8110' USING PERFECTA DEEP PENETRATING 22 GRAM CHARGES, 3 JSPF & 120 DEGREE PHASING.
	14:00 15:00	1.00	STG03	39		P		PRESSURE TEST LINES TO 9536 PSI. BREAK DOWN STG 3 PERFORATIONS @ 1351 PSI PUMPING 5 BPM. PERFORM STEP DOWN TEST. ISIP 1533 PSI. FG .62. 5 MIN 1020 PSI. 10 MIN 912 PSI. 15 MIN 830 PSI. TREAT STAGE 3 PERFORATIONS W/ 11382 GALLONS 15% HCL ACID USING 70 BIO BALL SEALERS DROPPING 14 BALLS EVERY 2000 GALLONS BEGINNING AT 2000 GALLONS, FLUSHING TO BOTTOM PERF + 10 BBLS. MAX PSI 5501 PSI. MAX RATE 55.83 BPM. AVG PSI 3047 PSI. AVG RATE 51.09 BPM. ISIP 1748 PSI. FINAL FG .65. 5 MIN 1345 PSI. 10 MIN 1161. TURN WELL OVER TO WIRELINE. 674 BBLS FLUID TO RECOVER
	15:00 17:30	2.50	STG04	21		P		RIH & SET CBP @ 7867'.PERFORATE STG 4 PERFORATIONS FROM 7647' TO 7852' USING PERFECTA DEEP PENETRATING 22 GRAM CHARGES, 3 JSPF & 120 DEGREE PHASING. PERF GUN MISFIRED AFTER SHOOTING 7797' TO 7798'. POOH W/ PERF GUN. WIRE HAD BROKEN OFF DETONATOR. REPAIR PERF GUN. RIH & FINISH SHOOTING STAGE 4
	17:30 19:00	1.50	STG04	39		P		PRESSURE TEST LINES TO 9680 PSI. SICP 265 PSI. BREAK DOWN STAGE 4 PERFS @ 1608 PSI, 5.8 BPM. TREATED PERFS W/ 9240 GALS 15% HCL ACID FLUSHING TO BOTTOM PERF + 10 BBLS. I.S.I.P 1683 PSI F.G. .65. 5 MINUTE 1561 PSI, 10 MINUTE 1472 PSI, 15 MINUTE 1394 PSI. PUMPED 6740 LBS 100 MESH SAND IN 1/2 PPG STAGE AND 116240 LBS 30 / 50 WHITE SAND IN 1/2 PPG, 1PPG, 1.5 PPG, 2PPG & 3PPG STAGES. AVG RATE 74.5 BPM, MAX RATE 75.48 BPM. AVG PRESS 2460 PSI, MAX PRESS 2938 PSI. I.S.I.P. 1931 PSI F.G. .681. 5 MIN 1676 PSI. 10 MIN 1598 PSI. SHUT WELL IN. 3539 BBLS TO RECOVER TURNED WELL OVER TO WIRELINE.
	19:00 22:00	3.00	RDMO	18		P		RD WIRELINE & PUMP LINES FROM GOAT HEAD.
	22:00 6:00	8.00	FB	19		P		OPEN WELL TO FLOW BACK TANK ON A 12/64" CHOKE @ 1000 PSI. REWCOVERED 235 BBLS OIL. CSG PRESSURE @ REPORT TIME 550 PSI
4/13/2016	6:00 7:00	1.00	FB	28		P		HOLD SAFETY MEETING ON NIPPLING DOWN FRAC STACK. FILL OUT & REVIEW JSA
	7:00 11:00	4.00	FB	18		P		ND FRAC STACK TO BOTTOM HCR VALVE. NIPPLE UP FLOW LINE TO TREATER SIDE CSG VALVE. RUN PUMP LINES. RIG DOWN FRAC EQUIPMENT. WHILE FLOWING WELL
	11:00 6:00	19.00	FB	19		P		CONTINUE FLOWING WELL
4/14/2016	6:00 6:30	0.50	FB	28		P		HOLD SAFETY MEETING ON FLOW BACK OPERATIONS.FILL OUT & REVIEW JSA
	6:30 6:00	23.50	FB	19		P		FLOW WELL TO PRODUCTION FACILITY. RECOVERED 163 BBLS OIL, 518 BBLS WTR, GAS FLAIRING, FLOWING @ 80 PSI ON A 48/64" CHOKE
4/15/2016	6:00 7:00	1.00	WOR	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON KILLING WELL. FILL OUT & REVIEW JSA

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
	7:00 8:00	1.00	WOR	18		P		OPEN WELL TO FLOW BACK TANK. BLEED PRESSURE FROM 100 PSI TO 20 PSI
	8:00 9:30	1.50	WOR	15		P		KILL WELL W/ 1000 BBLS 10 PPG BRINE WTR.
	9:30 12:00	2.50	WOR	16		P		ND HCR VALVE. NU & TEST BOP.
	12:00 13:00	1.00	WOR	15		P		KILL WELL W/ 75 BBLS 10 PPG BRINE WTR
	13:00 16:00	3.00	WOR	39		P		TIH W/ 6" BIT, BIT SUB & 240 JTS 2-7/8"EUE TBG, KILLING TBG AS NEEDED WHILE FLOWING CSG TO FLOWBACK TANK
	16:00 18:30	2.50	WOR	18		P		RU POWER SWIVEL. BREAK REVERSE CIRCULATION. CLEAN OUT 15' SAND & DRILL 7" CBP SET @ 7867'. CIRCULATE TBG CLEAN. KILL TBG W/ 20 BBLS 10 PPG BRINE WTR. RD POWER SWIVEL. TOOH W/ 14 JTS 2-7/8" EUE TBG. SDFN W/ EOT @ 7573'.
4/16/2016	6:00 7:00	1.00	WOR	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON CIRCULATING WELL. FILL OUT & REVIEW JSA
	7:00 8:30	1.50	WOR	06		P		SITP 100 PSI. SICP 200 PSI. REVERSE CIRCULATE OIL & GAS FROM WELL BORE. KILL TBG W/ 20 BBLS 10 PPG BRINE WTR DOWN TBG.
	8:30 9:30	1.00	WOR	39		P		TIH & TAG UP @ 8060'. RU POWER SWIVEL & BREAK REVERSE CIRCULATION.
	9:30 16:00	6.50	WOR	10		P		DRILL CBP REMAINS & CLEAN OUT SAND TO CBP SET @ 8128'. DRILL CBP. CIRCULATE CLEAN. TIH TO LINER TOP @ 8505'. FINISH DRILLING CBP ON LINER TOP. CIRCULATE CLEAN. KILL TBG W/ 30 BBLS 2% KCL WTR
	16:00 16:30	0.50	WOR	39		P		TOOH W/ 30 JTS 2-7/8"EUE TBG. SDFN
4/17/2016	6:00 7:00	1.00	WOR	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON KILLING WELL. FILL OUT & REVIEW JSA
	7:00 9:30	2.50	WOR	15		P		SITP 300 PSI. SICP 125 PSI. REVERSE CIRCULATE WELL W/ 275 BBLS 10 PPG BRINE WTR.
	9:30 17:30	8.00	WOR	39		P		TOOH W/ TBG & 6" BIT. TIH W/ 4-1/8" OD BIT, BIT SUB, 7 JTS 2-3/8"EUE TBG, X-OVER & 255 JTS 2-7/8"EUE TBG. RU POWER SWIVEL & BREAK REVERSE CIRCULATION. CLEAN 3' OF SAND OFF CBP SET @ 8535'. DRILL CBP SET @ 8535'. CIRCULATE CLEAN. KILL TBG. CHASE CBP REMAINS TO CMT RETAINER SET & 8673'. TOOH W/ 36 JTS 2-7/8"EUE TBG.
	17:30 18:00	0.50	WOR	18		P		RU FLOW LINE TO TBG.
	18:00 6:00	12.00	WOR	19		P		FLOW WELL TO FLOW BACK TANK ON A 26/64" CHOKE. RECOVERED 420 BBLS FLUID W/ 575 PSI ON CSG & TBG FLOWING 40 BBLS PER HOUR @ 200 PSI
4/18/2016	6:00 6:30	0.50	FB	28		P		HOLD SAFETY MEETING ON FLOW BACK OPERATIONS. FILL OUT & REVIEW JSA
	6:30 6:00	23.50	FB	19		P		FLOW WELL. RECOVERED 789 BBLS OIL (298 BBLS TRANSFERED FROM FLOW BACK TANKS) & 837 BBLS WTR W/ GAS FLARING. PRESSURE @ REPORT TIME CSG PSI 1075 PSI. TBG PSI 450 PSI FLOWING ON A 26/64" CHOKE
4/19/2016	6:00 6:30	0.50	FB	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON FLOW BACK OPERATIONS. FILL OUT & REVIEW JSA
	6:30 6:00	23.50	FB	19		P		FLOW WELL TO PRODUCTION FACILITY. RECOVERED 861 BBLS OIL (140 BBLS FROM SWD TANK, 480 BBLS WTR W/ GAS FLAIRING. CSG PRESSURE @ REPORT TIME 1175 PSI. TBG PRESSURE 350 PSI ON A 28/64" CHOKE
4/20/2016	6:00 7:00	1.00	WOR	28	TRAVEL TO LOCATION.	P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON KILLING WELL. FILL OUT & REVIEW JSA
	7:00 10:00	3.00	WOR	15		P		SICP 1175 PSI. FLOWING TBG PRESSURE 300 PSI. OPEN CSG TO FLOW BACK TANK & BLEED PRESSURE TO 300 PSI. REVERSE CIRCULATE WELL W/ 275 BBLS 10 PPG BRINE WTR. PUMP 50 BBLS 10 PPG BRINE WTR DOWN TBG. WELL WAS DEAD

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
	10:00 12:30	2.50	WOR	39		P		TIH & TAG CMT RETAINER @ 8673'. LD 29 JTS 2-7/8"EUE TBG. TOOH W/ 232 JTS 2-7/8"EUE TBG, X-OVER, 7 JTS 2-3/8"EUE TBG, BIT SUB & BIT
	12:30 16:00	3.50	WOR	18		P		RU WIRELINE UNIT. RIH W/ 6" OD GUAGE RING TO 7650'. RIH W/ KLX 7" PKR & SET @ 7610' (CSG COLLAR @ 7600'). RD WIRE LINE UNIT
	16:00 18:30	2.50	WOR	39		P		TIH W/ ON/OFF TOOL, 1 JT 2-7/8"EUE TBG, 2-7/8" SEAT NIPPLE (2.28" ID) & 230 JTS 2-7/8"EUE TBG. ENGUAGE PKR. PU 25 K OVER STRING WEIGHT. RELEASE ON/OFF TOOL & LD 3 JTS 2-7/8"EUE TBG. SDFN
4/21/2016	6:00 7:00	1.00	WOR	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON BLEEDING PRESSURE OFF WELL. FILL OUT & REVIEW JSA
	7:00 9:00	2.00	WOR	18		P		SICP 300 PSI. SITP 400 PSI. BLEED PESSION OFF TBG & CSG. PUMP 20 BBLS 10 PPG BRINE WTR DOWN TBG.
	9:00 12:00	3.00	WOR	39		P		TIH W/ 2-1/2" OD ROD FISHING TOOL, 89 3/4" RODS, 109 7/8" RODS & 88 1" RODS.
	12:00 13:00	1.00	WOR	06		P		FLUSH RODS W/ 50 BLS 2% KCL WTR. KILL TBG W/ 50 BBLS BRINE WTR.
	13:00 16:00	3.00	WOR	24		P		LD RODS & OVERSHOT
	16:00 17:30	1.50	WOR	16		P		REVERSE CIRCULATE BRINE WTR FROM WELL BORE W/ 290 BBLS PKR FLUID. PUMP 0 BBLS 2% KCL WTR DOWN TBG
	17:30 20:00	2.50	WOR	16		P		RIH & LATCH PKR. LAND TBG ON BREECH LOCK TBG HANGER IN 15K TENSION W/ BACK PRESSURE INSTALLED IN TBG HANGER. ND BOP & FRAC VALVE. NU & TEST WELLHEAD & FLOWLINES. PUMP OUT PLUG @ 3500 PSI. OPEN WELL TO PRODUCTION FACILITY ON A 28/64" CHOKE.
	20:00 6:00	10.00	FB	19		P		FLOW WELL TO PRODUCTION FACILITY
4/22/2016	6:00 7:00	1.00	WOR	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON RIGGING DOWN RIG. FILL OUT & REVIEW JSA
	7:00 9:00	2.00	RDMO	02		P		RD RIG & PUMP LINES. MOVE OFF LOCATION
	9:00 6:00	21.00	FB	19		P		FLOW WELL TO PRODUCTION FACILITY
4/29/2016	14:00 20:00	6.00	WLWORK	22		P		MIRU WIRELINE UNIT. RIH W/ 1-11/16" SINKER BARS & TAG @ 8666'. POOH. RIH W/ PROTECHNICS PRODUCTION LOGGING TOOL. LOG INTERVAL 7500' TO 8666'. DOWN LOAD DATA. RD WIRELINE UNIT. MOVE OFF LOCATION

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 1001 Louisiana , Houston, TX, 77002		8. WELL NAME and NUMBER: Matern Trust 4-21C4
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1707 FSL 1907 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW Section: 21 Township: 03.0S Range: 04.0W Meridian: U		9. API NUMBER: 43013528410000
PHONE NUMBER: 713 997-5138 Ext		9. FIELD and POOL or WILDCAT: ALTAMONT
COUNTY: DUCHESNE		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION	<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 6/14/2016 <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:
OTHER: <input style="width: 100px;" type="text" value="Installed Rods"/>				

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
 Installed Rods after recompletion. Please see attached.

Accepted by the
 Utah Division of
 Oil, Gas and Mining
FOR RECORD ONLY
 October 07, 2016

NAME (PLEASE PRINT) Maria S. Gomez	PHONE NUMBER 713 997-5138	TITLE Consultant
SIGNATURE N/A	DATE 10/6/2016	

CENTRAL DIVISION

ALTAMONT FIELD
MATERN TRUST 4-21C4
MATERN TRUST 4-21C4
RECOMPLETE LAND

Operation Summary Report

Disclaimer: Although the information contained in this report is based on sound engineering practices, the copyright owner(s) does (do) not accept any responsibility whatsoever, in negligence or otherwise, for any loss or damage arising from the possession or use of the report whether in terms of correctness or otherwise. The application, therefore, by the user of this report or any part thereof, is solely at the user's own risk.

1 General

1.1 Customer Information

Company	CENTRAL DIVISION
Representative	
Address	

1.2 Well Information

Well	MATERN TRUST 4-21C4		
Project	ALTAMONT FIELD	Site	MATERN TRUST 4-21C4
Rig Name/No.		Event	RECOMPLETE LAND
Start date	4/1/2016	End date	4/21/2016
Spud Date/Time	4/24/2014	UWI	MATERN TRUST 4-21C4
Active datum	KB @5,879.3ft (above Mean Sea Level)		
Afe No./Description	166594/56459 / MATERN TRUST 4-21C4		

2 Summary

2.1 Operation Summary

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (ft)	Operation
4/2/2016	9:30 13:00	3.50	MIRU	01		P		MOVE RIG TO LOCATION. SERVICE RIG. SLIDE UNIT & RU RIG
	13:00 15:00	2.00	WOR	18		P		ATTEMPT TO WORK PUMP OFF SEAT WHILE PUMPING 200 BBLS 2% KCL WTR DOWN CSG
	15:00 18:00	3.00	WOR	39		P		BACK OFF ROD STRING. TOOH W/ 88 1" RODS, 109 7/8" RODS & 136 3/4" RODS LAYING DOWN 48 3/4" RODS AS PER NEW ROD STAR. 38 3/4" RODS, 17 WEIGHT RODS & PUMP IN HOLE. SDFN
4/3/2016	6:00 6:00	24.00	WOR	18		P		NO ACTIVITY TODAY. SHUT DOWN FOR WEEKEND
4/4/2016	6:00 6:00	24.00	WOR	18		P		NO ACTIVITY TODAY. SHUT DOWN FOR WEEKEND
4/5/2016	6:00 7:00	1.00	WOR	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON WIRELINE SAFETY. FILL OUT & REVIEW JSA
	7:00 8:30	1.50	WLWORK	21		P		RU WIRELINE UNIT. RIH & PERF TBG @ 8370'. POOH W/ TBG PUNCHER & RD WIRELINE UNIT
	8:30 9:30	1.00	WOR	16		P		ND WELL HEAD. INSTALL TBG HANGER & PUP JT. RE LAND TBG. NU BOP & TEST TO 5000 PSI
	9:30 15:30	6.00	WOR	39		P		RELEASE TAC. RU SCANNERS TOOH W/ 258 JTS 2-7/8"EUE TBG. SCAN RESULTS 254 JTS YELLOW BAND TBG, 2 JTS BLUE BAND TBG & 2 JTS RED BAND TBG. RD TBG SCANNERS. STRIP OUT OF HOLE W/ REMAINING 2-3/8" EUE TBG, 3/4" RODS, WEIGHT RODS, PUMP, TAC & BHA.
	15:30 19:30	4.00	WLWORK	27		P		RIH W/ 4" OD GUAGE RING TO 8770'. RIH & SET MAGNUM 15K CBP @ 8765'. DUMP BAIL 15' CMT ON CBP. RD WIRELINE UNIT. SDFN
4/6/2016	6:00 7:00	1.00	WOR	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON NIPPLING UP FRAC VALVE. FILL OUT & REVIEW JSA
	7:00 10:00	3.00	WOR	16		P		ND BOP. NU FRAC VALVE. NU BOP. TEST FRAC VALVE TO 10000 PSI. TEST BOP TO 4800 PSI. FILL CSG W/ 95 BBLS 2% KCL WTR. PRESSURE TEST CSG TO 8000 PSI FOR 15 MINUTES. TESTED GOOD. RD TESTERS.
	10:00 16:00	6.00	WLWORK	27		P		RU WIRELINE UNIT. RIH W/ 6" OD GUAGE RING TO LINER TOP @ 8505'. POOH. RIH & PERFORATE 5" CSG FROM 8683' TO 8684' 6 JSPF, WHILE HOLDING 1000 PSI ON CSG. PRESSURE SLOWLY DROPPED TO 0 PSI. ESTABLISH INJECTION RATE OF 2700 PSI @ 1 BPM. RIH & SET CICR @ 8673'. RD WIRELINE UNIT.
	16:00 19:00	3.00	WOR	39		P		RU HYDROTESTER. RIH W/ STINGER, 7 JTS 2-3/8"EUE TBG, X-OVER, 2-7/8"SEAT NIPPLE & 72 JTS 2-7/8"EUE TBG, TESTING ALL 2-7/8"EUE TBG TO 8500 PSI. SDFN

2.1 Operation Summary (Continued)

Date	Time Start-End		Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (ft)	Operation
4/7/2016	6:00	7:00	1.00	WOR	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON HYDROTESTING TBG. FILL OUT & REVIEW JSA
	7:00	12:00	5.00	WOR	39		P		TIH W/ 182 JTS 2-7/8"EUE TBG, HYDROTESTING TO 8500 PSI. RD HYDROTESTER. PU 5 JTS INSPECTED 2-7/8"EUE TBG. STING INTO CICR @ 8673'.
	12:00	16:00	4.00	WOR	18		P		RU HALIBURTON CMT EQUIPMENT. ESTABLISH INJECTION RATE OF 1 BPM & @ 3285 PSI. UNSTING FROM RETAINER PUMP 1 BBL FRESH WTR, 10 BBLS SUPERFLUSH 101 & 1 BBL FRESH WTR & SPOT 1 BBL FROM END OF TBG WHILE HOLDING 700 PSI ON ANNULUS. STING INTO RETAINER. PUMP SUPERFLUSH 101 & 1 BBL FRESH WTR INTO RETAINER. FINAL PRESSURE 4872 PSI. STING OUT OF RETAINER. REVERSE CIRCULATE 2 TBG VOLUMES TO ENSURE THERE IS NO REACTIVE SPACER IN TBG. MIX & PUMP 40 SX (8 BBLS) 15.8 PPG 1.15 YIELD CMT. PUMP 5 BBLS FRESH WTR, 8 BBLS CMT & 5 BBLS FRESH WTR. DISPLACE CMT 2 BBLS FROM END OF TBG. STING INTO RETAINER. PUMP 2 BBLS FRESH WTR & 4 BBLS CMT INTO RETAINER. FINAL PRESSURE 3054 PSI. STING OUT OF RETAINER. REVERSE CIRCULATE 2 TBG VOLUMES, RECOVERING 4 BBLS CMT AFTER PUMPING TBG VOLUME. RD HALIBURTON.
	16:00	18:00	2.00	WOR	39		P		TOOH W/ 160 JTS 2-7/8"EUE TBG. SDFN
4/8/2016	6:00	7:00	1.00	WOR	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON TRIPPING TBG. FILL OUT & REVIEW JSA
	7:00	8:00	1.00	WOR	39		P		TOOH W/ 98 JTS 2-7/8"EUE TBG, SEAT NIPPLE, X-OVER, 7 JTS 2-3/8"EUE TBG & STINGER.
	8:00	13:00	5.00	WOR	16		P		RD WORK FLOOR. PRESSURE TEST CSG TO 6000 PSI FOR 15 MINUTES. ND BOP. NU & TEST FRAC STACK.
	13:00	15:30	2.50	STG01	21		P		RU WIRELINE UNIT. RIH & PERF STG 1 PERFORATIONS FROM 8588' TO 8668' USING PERFECTA DEEP PENETRATING 22 GRAM CHARGES, 3 JSPF & 120 DEGREE PHASING, WHILE HOLDING 1000 PSI ON CSG. PRESSURE DID NOT CHANGE WHILE PERFORATING. SDFN
4/9/2016	6:00	6:00	24.00	STG01	18		P		NO ACTIVITY TODAY. WAITING ON FRAC EQUIPMENT
4/10/2016	6:00	6:00	24.00	STG01	18		P		HEAT FRAC WTR & RU FRAC EQUIPMENT
4/11/2016	6:00	6:00	24.00	STG01	18		P		FINISH RIGGING UP FRAC EQUIPMENT. MIX ACID
4/12/2016	6:00	8:00	2.00	STG01	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON FRAC SAFETY. FILL OUT & REVIEW JSA'S
	8:00	10:00	2.00	STG01	35		P		PRESSURE TEST LINES TO 9630 PSI. BREAK DOWN STG 1 PERFORATIONS @ 4215 PSI PUMPING 6.1 BPM. PUMP 107BBLS THEN PERFORM STEP DOWN TEST. ISIP 2832 PSI. FG .762. 5 MIN 2610 PSI. 10 MIN 2512 PSI. 15 MIN 2471 PSI. TREAT STAGE 2 PERFORATIONS W/ 11382 GALLONS 15% HCL ACID USING 55 BAL SEALERS DROPPING 11 BALLS EVERY 2000 GALLONS BEGINNING AT 2000 GALLONS, FLUSHING TO BOTTOM PERF + 10 BBLS. SAW FAIR DIVERSION. MAX PSI 7815 PSI. MAX RATE 53.25 BPM. AVG PSI 5475 PSI. AVG RATE 43.9 BPM 2900 PSI. FINAL FG .769. 5 MIN 2671 PSI. 10 MIN 2615. TURN WELL OVER TO WIRELINE. 717 BBLS FLUID TO RECOVER
	10:00	11:30	1.50	STG02	21		P		RIH & SET CBP @ 8535'. PERFORATE STG 2 PERFORATIONS FROM 8464' TO 8484' USING PERFECTA DEEP PENETRATING 22 GRAM CHARGES, 3 JSPF & 120 DEGREE PHASING. PRESSURE DROPPED FROM 2400 PSI TO 2000 PSI WHILE PERFORATING.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (ft)	Operation
	11:30 12:15	0.75	STG02	35		P		PRESSURE TEST LINES TO 9584 PSI. BREAK DOWN STG 2 PERFORATIONS @ 2838 PSI PUMPING 5.8 BPM. PERFORM STEP DOWN TEST. ISIP 2543 PSI. FG .734. 5 MIN 2428 PSI. 10 MIN 2412 PSI. 15 MIN 2402 PSI. TREAT STAGE 2 PERFORATIONS W/ 5208 GALLONS 15% HCL ACID USING 55 BAL SEALERS DROPPING 11 BALLS EVERY 1250 GALLONS BEGINNING AT 1250 GALLONS, FLUSHING TO BOTTOM PERF + 10 BBLS. SAW FAIR DIVERSION. MAX PSI 7766 PSI. MAX RATE 54.44 BPM. AVG PSI 3922 PSI. AVG RATE 4680 BPM. ISIP 2611 PSI. FINAL FG .68. 5 MIN 2450 PSI. 10 MIN 2384. TURN WELL OVER TO WIRELINE. 526 BBLS FLUID TO RECOVER
	12:15 14:00	1.75	STG03	21		P		RIH & SET CBP @ 8128'.PERFORATE STG 3 PERFORATIONS FROM 8022' TO 8110' USING PERFECTA DEEP PENETRATING 22 GRAM CHARGES, 3 JSPF & 120 DEGREE PHASING.
	14:00 15:00	1.00	STG03	39		P		PRESSURE TEST LINES TO 9536 PSI. BREAK DOWN STG 3 PERFORATIONS @ 1351 PSI PUMPING 5 BPM. PERFORM STEP DOWN TEST. ISIP 1533 PSI. FG .62. 5 MIN 1020 PSI. 10 MIN 912 PSI. 15 MIN 830 PSI. TREAT STAGE 3 PERFORATIONS W/ 11382 GALLONS 15% HCL ACID USING 70 BIO BALL SEALERS DROPPING 14 BALLS EVERY 2000 GALLONS BEGINNING AT 2000 GALLONS, FLUSHING TO BOTTOM PERF + 10 BBLS. MAX PSI 5501 PSI. MAX RATE 55.83 BPM. AVG PSI 3047 PSI. AVG RATE 51.09 BPM. ISIP 1748 PSI. FINAL FG .65. 5 MIN 1345 PSI. 10 MIN 1161. TURN WELL OVER TO WIRELINE. 674 BBLS FLUID TO RECOVER
	15:00 17:30	2.50	STG04	21		P		RIH & SET CBP @ 7867'.PERFORATE STG 4 PERFORATIONS FROM 7647' TO 7852' USING PERFECTA DEEP PENETRATING 22 GRAM CHARGES, 3 JSPF & 120 DEGREE PHASING. PERF GUN MISFIRED AFTER SHOOTING 7797' TO 7798'. POOH W/ PERF GUN. WIRE HAD BROKEN OFF DETONATOR. REPAIR PERF GUN. RIH & FINISH SHOOTING STAGE 4
	17:30 19:00	1.50	STG04	39		P		PRESSURE TEST LINES TO 9680 PSI. SICP 265 PSI. BREAK DOWN STAGE 4 PERFS @ 1608 PSI, 5.8 BPM. TREATED PERFS W/ 9240 GALS 15% HCL ACID FLUSHING TO BOTTOM PERF + 10 BBLS. I.S.I.P 1683 PSI F.G. .65. 5 MINUTE 1561 PSI, 10 MINUTE 1472 PSI, 15 MINUTE 1394 PSI. PUMPED 6740 LBS 100 MESH SAND IN 1/2 PPG STAGE AND 116240 LBS 30 / 50 WHITE SAND IN 1/2 PPG, 1PPG, 1.5 PPG, 2PPG & 3PPG STAGES. AVG RATE 74.5 BPM, MAX RATE 75.48 BPM. AVG PRESS 2460 PSI, MAX PRESS 2938 PSI. I.S.I.P. 1931 PSI F.G. .681. 5 MIN 1676 PSI. 10 MIN 1598 PSI. SHUT WELL IN. 3539 BBLS TO RECOVER TURNED WELL OVER TO WIRELINE.
	19:00 22:00	3.00	RDMO	18		P		RD WIRELINE & PUMP LINES FROM GOAT HEAD.
	22:00 6:00	8.00	FB	19		P		OPEN WELL TO FLOW BACK TANK ON A 12/64" CHOKE @ 1000 PSI. REWCOVERED 235 BBLS OIL. CSG PRESSURE @ REPORT TIME 550 PSI
4/13/2016	6:00 7:00	1.00	FB	28		P		HOLD SAFETY MEETING ON NIPPLING DOWN FRAC STACK. FILL OUT & REVIEW JSA
	7:00 11:00	4.00	FB	18		P		ND FRAC STACK TO BOTTOM HCR VALVE. NIPPLE UP FLOW LINE TO TREATER SIDE CSG VALVE. RUN PUMP LINES. RIG DOWN FRAC EQUIPMENT. WHILE FLOWING WELL
	11:00 6:00	19.00	FB	19		P		CONTINUE FLOWING WELL
4/14/2016	6:00 6:30	0.50	FB	28		P		HOLD SAFETY MEETING ON FLOW BACK OPERATIONS.FILL OUT & REVIEW JSA
	6:30 6:00	23.50	FB	19		P		FLOW WELL TO PRODUCTION FACILITY. RECOVERED 163 BBLS OIL, 518 BBLS WTR, GAS FLAIRING, FLOWING @ 80 PSI ON A 48/64" CHOKE
4/15/2016	6:00 7:00	1.00	WOR	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON KILLING WELL. FILL OUT & REVIEW JSA

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (ft)	Operation
	7:00 8:00	1.00	WOR	18		P		OPEN WELL TO FLOW BACK TANK. BLEED PRESSURE FROM 100 PSI TO 20 PSI
	8:00 9:30	1.50	WOR	15		P		KILL WELL W/ 1000 BBLS 10 PPG BRINE WTR.
	9:30 12:00	2.50	WOR	16		P		ND HCR VALVE. NU & TEST BOP.
	12:00 13:00	1.00	WOR	15		P		KILL WELL W/ 75 BBLS 10 PPG BRINE WTR
	13:00 16:00	3.00	WOR	39		P		TIH W/ 6" BIT, BIT SUB & 240 JTS 2-7/8"EUE TBG, KILLING TBG AS NEEDED WHILE FLOWING CSG TO FLOWBACK TANK
	16:00 18:30	2.50	WOR	18		P		RU POWER SWIVEL. BREAK REVERSE CIRCULATION. CLEAN OUT 15' SAND & DRILL 7" CBP SET @ 7867'. CIRCULATE TBG CLEAN. KILL TBG W/ 20 BBLS 10 PPG BRINE WTR. RD POWER SWIVEL. TOOH W/ 14 JTS 2-7/8" EUE TBG. SDFN W/ EOT @ 7573'.
4/16/2016	6:00 7:00	1.00	WOR	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON CIRCULATING WELL. FILL OUT & REVIEW JSA
	7:00 8:30	1.50	WOR	06		P		SITP 100 PSI. SICP 200 PSI. REVERSE CIRCULATE OIL & GAS FROM WELL BORE. KILL TBG W/ 20 BBLS 10 PPG BRINE WTR DOWN TBG.
	8:30 9:30	1.00	WOR	39		P		TIH & TAG UP @ 8060'. RU POWER SWIVEL & BREAK REVERSE CIRCULATION.
	9:30 16:00	6.50	WOR	10		P		DRILL CBP REMAINS & CLEAN OUT SAND TO CBP SET @ 8128'. DRILL CBP. CIRCULATE CLEAN. TIH TO LINER TOP @ 8505'. FINISH DRILLING CBP ON LINER TOP. CIRCULATE CLEAN. KILL TBG W/ 30 BBLS 2% KCL WTR
	16:00 16:30	0.50	WOR	39		P		TOOH W/ 30 JTS 2-7/8"EUE TBG. SDFN
4/17/2016	6:00 7:00	1.00	WOR	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON KILLING WELL. FILL OUT & REVIEW JSA
	7:00 9:30	2.50	WOR	15		P		SITP 300 PSI. SICP 125 PSI. REVERSE CIRCULATE WELL W/ 275 BBLS 10 PPG BRINE WTR.
	9:30 17:30	8.00	WOR	39		P		TOOH W/ TBG & 6" BIT. TIH W/ 4-1/8" OD BIT, BIT SUB, 7 JTS 2-3/8"EUE TBG, X-OVER & 255 JTS 2-7/8"EUE TBG. RU POWER SWIVEL & BREAK REVERSE CIRCULATION. CLEAN 3' OF SAND OFF CBP SET @ 8535'. DRILL CBP SET @ 8535'. CIRCULATE CLEAN. KILL TBG. CHASE CBP REMAINS TO CMT RETAINER SET & 8673'. TOOH W/ 36 JTS 2-7/8"EUE TBG.
	17:30 18:00	0.50	WOR	18		P		RU FLOW LINE TO TBG.
	18:00 6:00	12.00	WOR	19		P		FLOW WELL TO FLOW BACK TANK ON A 26/64" CHOKE. RECOVERED 420 BBLS FLUID W/ 575 PSI ON CSG & TBG FLOWING 40 BBLS PER HOUR @ 200 PSI
4/18/2016	6:00 6:30	0.50	FB	28		P		HOLD SAFETY MEETING ON FLOW BACK OPERATIONS. FILL OUT & REVIEW JSA
	6:30 6:00	23.50	FB	19		P		FLOW WELL. RECOVERED 789 BBLS OIL (298 BBLS TRANSFERED FROM FLOW BACK TANKS) & 837 BBLS WTR W/ GAS FLARING. PRESSURE @ REPORT TIME CSG PSI 1075 PSI. TBG PSI 450 PSI FLOWING ON A 26/64" CHOKE
4/19/2016	6:00 6:30	0.50	FB	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON FLOW BACK OPERATIONS. FILL OUT & REVIEW JSA
	6:30 6:00	23.50	FB	19		P		FLOW WELL TO PRODUCTION FACILITY. RECOVERED 861 BBLS OIL (140 BBLS FROM SWD TANK, 480 BBLS WTR W/ GAS FLAIRING. CSG PRESSURE @ REPORT TIME 1175 PSI. TBG PRESSURE 350 PSI ON A 28/64" CHOKE
4/20/2016	6:00 7:00	1.00	WOR	28	TRAVEL TO LOCATION.	P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON KILLING WELL. FILL OUT & REVIEW JSA
	7:00 10:00	3.00	WOR	15		P		SICP 1175 PSI. FLOWING TBG PRESSURE 300 PSI. OPEN CSG TO FLOW BACK TANK & BLEED PRESSURE TO 300 PSI. REVERSE CIRCULATE WELL W/ 275 BBLS 10 PPG BRINE WTR. PUMP 50 BBLS 10 PPG BRINE WTR DOWN TBG. WELL WAS DEAD

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (ft)	Operation
	10:00 12:30	2.50	WOR	39		P		TIH & TAG CMT RETAINER @ 8673'. LD 29 JTS 2-7/8"EUE TBG. TOOH W/ 232 JTS 2-7/8"EUE TBG, X-OVER, 7 JTS 2-3/8"EUE TBG, BIT SUB & BIT
	12:30 16:00	3.50	WOR	18		P		RU WIRELINE UNIT. RIH W/ 6" OD GUAGE RING TO 7650'. RIH W/ KLX 7" PKR & SET @ 7610' (CSG COLLAR @ 7600'). RD WIRE LINE UNIT
	16:00 18:30	2.50	WOR	39		P		TIH W/ ON/OFF TOOL, 1 JT 2-7/8"EUE TBG, 2-7/8" SEAT NIPPLE (2.28" ID) & 230 JTS 2-7/8"EUE TBG. ENGUAGE PKR. PU 25 K OVER STRING WEIGHT. RELEASE ON/OFF TOOL & LD 3 JTS 2-7/8"EUE TBG. SDFN
4/21/2016	6:00 7:00	1.00	WOR	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON BLEEDING PRESSURE OFF WELL. FILL OUT & REVIEW JSA
	7:00 9:00	2.00	WOR	18		P		SICP 300 PSI. SITP 400 PSI. BLEED PESSURE OFF TBG & CSG. PUMP 20 BBLS 10 PPG BRINE WTR DOWN TBG.
	9:00 12:00	3.00	WOR	39		P		TIH W/ 2-1/2" OD ROD FISHING TOOL, 89 3/4" RODS, 109 7/8" RODS & 88 1" RODS.
	12:00 13:00	1.00	WOR	06		P		FLUSH RODS W/ 50 BLS 2% KCL WTR. KILL TBG W/ 50 BBLS BRINE WTR.
	13:00 16:00	3.00	WOR	24		P		LD RODS & OVERSHOT
	16:00 17:30	1.50	WOR	16		P		REVERSE CIRCULATE BRINE WTR FROM WELL BORE W/ 290 BBLS PKR FLUID. PUMP 0 BBLS 2% KCL WTR DOWN TBG
	17:30 20:00	2.50	WOR	16		P		RIH & LATCH PKR. LAND TBG ON BREECH LOCK TBG HANGER IN 15K TENSION W/ BACK PRESSURE INSTALLED IN TBG HANGER. ND BOP & FRAC VALVE. NU & TEST WELLHEAD & FLOWLINES. PUMP OUT PLUG @ 3500 PSI. OPEN WELL TO PRODUCTION FACILITY ON A 28/64" CHOKE.
	20:00 6:00	10.00	FB	19		P		FLOW WELL TO PRODUCTION FACILITY
4/22/2016	6:00 7:00	1.00	WOR	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON RIGGING DOWN RIG. FILL OUT & REVIEW JSA
	7:00 9:00	2.00	RDMO	02		P		RD RIG & PUMP LINES. MOVE OFF LOCATION
	9:00 6:00	21.00	FB	19		P		FLOW WELL TO PRODUCTION FACILITY
4/29/2016	14:00 20:00	6.00	WLWORK	22		P		MIRU WIRELINE UNIT. RIH W/ 1-11/16" SINKER BARS & TAG @ 8666'. POOH. RIH W/ PROTECHNICS PRODUCTION LOGGING TOOL. LOG INTERVAL 7500' TO 8666'. DOWN LOAD DATA. RD WIRELINE UNIT. MOVE OFF LOCATION
6/13/2016	7:00 8:00	1.00	WOR	28		P		HELD SAFETY MEETING W/ CREW MIRU NOT STANDING BEHIND RIG AS SPOT IN
	8:00 14:00	6.00	WOR	16		P		MIRU PEAK #1700 CHECK PSI ON TBG 200 PSI, R/U HOT OILER PUMP 60 BBLS 2% KCL, SET BPV IN TBG HANGER, ND FLOWING PRODUCTION TREE, N/U 7 - 1/16" 10M X 7 - 1/16" 5M X/O FLANGE, 7 - 1/16" 5M DOUBLE BOP, ANNULAR, TEST BLIND RAMS 250 PSI LOW, 4000 PSI HIGH (BLINDS DID NOT TEST REPLACE RAMS) TEST 2 7/8" PIPE RAMS HELD GOOD! HAD R/U WEATHERFORD LUBICATOR BLEED OFF RET 2 WAY , 200 PSI ON TBG, PUMP 25 BBLS DOWN TBG KILL WELL
	14:00 17:30	3.50	PRDHEQ	39		P		P/U 2 7/8" PUP JT, P/U 5/8" INCH WORK DOWN THREW BRETCH HANGER RELEASE 7" WL SET AS1 L/D BRETCH HANGER, I JT 2 7/8" N-80, 2' 4' 6' 8' X 2 7/8" SUBS, START TOOH W/ 141 JT 2 7/8" LEAVE KILL STRING IN THE HOLE EOT@ 3010, 96 JT 2 7/8" LEFT IN THE HOLE (BEEN FLUSHING AS NEED TOOH!)
	17:30 18:00	0.50	PRDHEQ	39		P		INSTALL TIW VAVLE 1ST BARRIER, 2ND NIGHT CAP W/ NEEDLE VAVLE, CLOSED & LOCK PIPE RAMS, SEND CSG UP FLOW LINE 2" BULL PLUGS IN ALL POSSIBLE SPOTS

6/14/2016

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (ft)	Operation
	6:00 7:30	1.50	INARTLT	28		P		HELD SAFETY MEETING W/ CREW JSA ON HYDRO TESTING TBG W/ 8500 PSI
	7:30 8:30	1.00	PRDHEQ	39		P		TSIP 50 PSI , CSIP 50 PSI , BLEED PRESSURE OFF AWAY FROM HOT OILER, MAKE SURE FLAMES OUT, R/U HOT OILER TBG PUMP 20 BBLS HOT FLUSH, DOWN TBG, UNLOCK PIPE RAMS & OPEN CONT TOO H W/ 91 JT 2 7/8" N-80, 7" ON/OFF SKIRT, 7" AS1-X PACKER, 4' X 2 7/8" PUP, 2 7/8" PUMP OUT PLUG
	8:30 13:30	5.00	INARTLT	39		P		M/U 5 3/4" SOLID NO/GO, 2 JT 2 7/8" MUD JT, 5 1/2" PBGA, 4' X 2 7/8" PUP, 2' X 2 7/8" PUP, MECH PSN, TUBING PUMP BARRELL, 4' X 2 7/8" PUP, 4 JT 2 7/8" N-80, 7" KLX 8RD TAC, TIH W/ 224 JT 2 7/8" N-80 (HYDRO TEST ALL THE STRING!) HAD NO LEAKS R/D TRUCK
	13:30 15:00	1.50	WHD TRE	16		P		SET 7" TAC USING LANDING DONUT LAND HANGER IN WELLHEAD, INSTALL TIW VAVLE, START N/D HYDRILL, BOP P/U TBG HANGER OUT WELLHEAD, L/D DONUT, M/U "B" FLANGE, INSTALL 60' X 1/4" CAP STRING IN FLANGE, NEW SET RADIGINS, FLOW "T", 2ND RADIGIN, INSTALL TIW VAVLE FLUSH TBG W/ 70 BBLS & PUMP CHEMICAL, CHANGE RIG EQUIPMENT OVER RUN RODS (DROP STAND VAVLE NO PSI) EOT@ 7,598' MECH PSN @ 7,495' 7" TAC@ 7,320'
	15:00 18:00	3.00	PRDHEQ	39		P		P/U 2 1/4" X 40' HF PUMP PLUNGER, 14 1 1/2" SINKER "C" BARS, 88 - 3/4" EL RODS W/ 4 GPR, P/U 1 7/8" EL 6 GPR, STRIP ROD TABLE, P/U 1 1/2" POLISH ROD CLOSE WELL IN, CLOSE 1" W BULL PLUG, SEND 2" UP FLOW LINE, SEND CSG UP SALES SDFN
6/15/2016	6:00 7:30	1.50	INARTLT	28		P		HELD SAFETY JSA MEETING W/ CREW TAILING IN RODS
	7:30 10:30	3.00	PRDHEQ	39		P		TSIP 0, L/D 1 1/2" X 40' POLISH CONT P/U 58 - 7/8" RODS EL 6 GPR, 50 - 7/8" EL RODS W/4 GPR, 40 - 1" RODS W/ 4 GPR, 43 - 1" EL RODS W/ 6 GPR (ALL USED RODS THAT WERE LAID ON THE GROUND!) 2 6' 1 4' 2 2' X 1" X PONYS SPACE OUT P/U 1 1/2" X 40' FILL TBG W/ 14 BBLS, PRESSURE UP 300 PSI STROKE TEST 1000 PSI (TWO STROKE W/ RIG!) CLEAN ROTA-FLEX UNIT OFF
	10:30 12:00	1.50	RDMO	02		P		RDMO " HELP " SLIDE ROTA- FLEX UNIT FORWARD TURN OVER PRODUCTION

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
1. TYPE OF WELL Oil Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 1001 Louisiana , Houston, TX, 77002		8. WELL NAME and NUMBER: Matern Trust 4-21C4
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1707 FSL 1907 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW Section: 21 Township: 03.0S Range: 04.0W Meridian: U		9. API NUMBER: 43013528410000
PHONE NUMBER: 713 997-5138 Ext		9. FIELD and POOL or WILDCAT: ALTAMONT
COUNTY: DUCHESNE		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text" value="Replace Rods"/>
<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 7/9/2016			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input type="checkbox"/> DRILLING REPORT Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Replaced parted rods. See attached for details.

Accepted by the
 Utah Division of
 Oil, Gas and Mining
FOR RECORD ONLY
 October 07, 2016

NAME (PLEASE PRINT) Maria S. Gomez	PHONE NUMBER 713 997-5138	TITLE Consultant
SIGNATURE N/A	DATE 10/6/2016	

CENTRAL DIVISION

ALTAMONT FIELD
MATERN TRUST 4-21C4
MATERN TRUST 4-21C4
LOE LAND

Operation Summary Report

Disclaimer: Although the information contained in this report is based on sound engineering practices, the copyright owner(s) does (do) not accept any responsibility whatsoever, in negligence or otherwise, for any loss or damage arising from the possession or use of the report whether in terms of correctness or otherwise. The application, therefore, by the user of this report or any part thereof, is solely at the user's own risk.

1 General

1.1 Customer Information

Company	CENTRAL DIVISION
Representative	
Address	

1.2 Well Information

Well	MATERN TRUST 4-21C4		
Project	ALTAMONT FIELD	Site	MATERN TRUST 4-21C4
Rig Name/No.		Event	LOE LAND
Start date	7/8/2016	End date	7/9/2016
Spud Date/Time	4/24/2014	UWI	MATERN TRUST 4-21C4
Active datum	KB @5,879.3ft (above Mean Sea Level)		
Afe No./Description	166964/57175 / MATERN TRUST 4-21C4		

2 Summary

2.1 Operation Summary

Date	Time Start-End		Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (ft)	Operation
7/9/2016	14:30	16:00	1.50	PRDHEQ	18		P		ROAD RIG FROM THE 3-26B5 TO 4-21C4, MIRU WHILE PUMPING 6 BBLS HOT 2% DOWN CSG, BLED OFF TBG
	16:00	17:00	1.00	PRDHEQ	42		P		L/D POL ROD & SUBS, POOH W/ BODY PART RIGHT AT THE 3rd GUIDE ON THE 77th 1" @ 1925', M/U FISHING TOOL
	17:00	19:00	2.00	PRDHEQ	42		P		RIH W/ 2 1/2" O.S W/ 1" GRAPPLE & 79-1" RODS, WORK TOOL OVER FISH, POOH W/ 76-1" & L/D FISH, SECURE WELL, SDFD.
7/10/2016	6:00	7:00	1.00	PRDHEQ	46		P		CREW TRAVEL HSM WRITE & REVIEW JSA (TOPIC) CONFINED SPACES
	7:00	8:30	1.50	PRDHEQ	42		P		L/D 5-1" BELOW PART & 5-1" ABOVE PART, L/D 3-1" FOR BROKEN GUIDES, P/U 14 NEW 1" RODS W/ 7GPR, RIH W/ 66-1", SPACE OUT, P/U POL ROD SEAT PLUNGER IN BARREL
	8:30	9:00	0.50	PMPNG	34		P		FILL TBG W/ 6 BBLS 2% KCL, P.T. TBG TO 500 PSI, STROKE TEST TBG PUMP TO 1000 PSI, GOOD PUMP ACTION, FLUSH FLOW LINE W/ 15 HOT BBLS
	9:00	10:30	1.50	PRDHEQ	18		P		R/D RIG, SLIDE IN UNIT HANG OFF RODS, TWOTO, CLEAN LOCATION, SDFW.

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2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: 1001 Louisiana, Houston, TX, 77002		8. WELL NAME and NUMBER: Matern Trust 4-21C4
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1707 FSL 1907 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW Section: 21 Township: 03.0S Range: 04.0W Meridian: U		9. API NUMBER: 43013528410000
PHONE NUMBER: 713 997-5138 Ext		9. FIELD and POOL or WILDCAT: ALTAMONT
COUNTY: DUCHESNE		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION	<input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 10/13/2016 <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:
OTHER: <input style="width: 100px;" type="text" value="DO Plugs"/>				

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
 DO retainer @ 8673' & CBP @ 8765'. Open Perfs: 7647'-8690' (04/2016 Recom) & 9041'-11223' (Initial Completion).

Accepted by the
 Utah Division of
 Oil, Gas and Mining
FOR RECORD ONLY
 November 28, 2016

NAME (PLEASE PRINT) Maria S. Gomez	PHONE NUMBER 713 997-5138	TITLE Consultant
SIGNATURE N/A	DATE 11/9/2016	

CENTRAL DIVISION

ALTAMONT FIELD
MATERN TRUST 4-21C4
MATERN TRUST 4-21C4
RECOMPLETE LAND

Operation Summary Report

Disclaimer: Although the information contained in this report is based on sound engineering practices, the copyright owner(s) does (do) not accept any responsibility whatsoever, in negligence or otherwise, for any loss or damage arising from the possession or use of the report whether in terms of correctness or otherwise. The application, therefore, by the user of this report or any part thereof, is solely at the user's own risk.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
	6:00 7:30	1.50	INARTLT	28		P		HELD SAFETY MEETING W/ CREW JSA ON HYDRO TESTING TBG W/ 8500 PSI
	7:30 8:30	1.00	PRDHEQ	39		P		TSIP 50 PSI , CSIP 50 PSI , BLEED PRESSURE OFF AWAY FROM HOT OILER, MAKE SURE FLAMES OUT, R/U HOT OILER TBG PUMP 20 BBLS HOT FLUSH, DOWN TBG, UNLOCK PIPE RAMS & OPEN CONT TOO H W/ 91 JT 2 7/8" N-80, 7" ON/OFF SKIRT, 7" AS1-X PACKER, 4' X 2 7/8" PUP, 2 7/8" PUMP OUT PLUG
	8:30 13:30	5.00	INARTLT	39		P		M/U 5 3/4" SOLID NO/GO, 2 JT 2 7/8" MUD JT, 5 1/2" PBGA, 4' X 2 7/8" PUP, 2' X 2 7/8" PUP, MECH PSN, TUBING PUMP BARRELL, 4' X 2 7/8" PUP, 4 JT 2 7/8" N-80, 7" KLX 8RD TAC, TIH W/ 224 JT 2 7/8" N-80 (HYDRO TEST ALL THE STRING!) HAD NO LEAKS R/D TRUCK
	13:30 15:00	1.50	WHD TRE	16		P		SET 7" TAC USING LANDING DONUT LAND HANGER IN WELLHEAD, INSTALL TIW VAVLE, START N/D HYDRILL, BOP P/U TBG HANGER OUT WELLHEAD, L/D DONUT, M/U "B" FLANGE, INSTALL 60' X 1/4" CAP STRING IN FLANGE, NEW SET RADIGINS, FLOW "T", 2ND RADIGIN, INSTALL TIW VAVLE FLUSH TBG W/ 70 BBLS & PUMP CHEMICAL, CHANGE RIG EQUIPMENT OVER RUN RODS (DROP STAND VAVLE NO PSI) EOT@ 7,598' MECH PSN @ 7,495' 7" TAC@ 7,320'
	15:00 18:00	3.00	PRDHEQ	39		P		P/U 2 1/4" X 40' HF PUMP PLUNGER, 14 1 1/2" SINKER "C" BARS, 88 - 3/4" EL RODS W/ 4 GPR, P/U 1 7/8" EL 6 GPR, STRIP ROD TABLE, P/U 1 1/2" POLISH ROD CLOSE WELL IN, CLOSE 1" W BULL PLUG, SEND 2" UP FLOW LINE, SEND CSG UP SALES SDFN
6/15/2016	6:00 7:30	1.50	INARTLT	28		P		HELD SAFETY JSA MEETING W/ CREW TAILING IN RODS
	7:30 10:30	3.00	PRDHEQ	39		P		TSIP 0, L/D 1 1/2" X 40' POLISH CONT P/U 58 - 7/8" RODS EL 6 GPR, 50 - 7/8" EL RODS W/4 GPR, 40 - 1" RODS W/ 4 GPR, 43 - 1" EL RODS W/ 6 GPR (ALL USED RODS THAT WERE LAID ON THE GROUND!) 2 6' 1 4' 2 2' X 1" X PONYS SPACE OUT P/U 1 1/2" X 40' FILL TBG W/ 14 BBLS, PRESSURE UP 300 PSI STROKE TEST 1000 PSI (TWO STROKE W/ RIG!) CLEAN ROTA-FLEX UNIT OFF
	10:30 12:00	1.50	RDMO	02		P		RDMO " HELP " SLIDE ROTA - FLEX UNIT FORWARD TURN OVER PRODUCTION
10/8/2016	6:00 7:00	1.00	MIRU	01		P		TRAVEL TO LOC HSM REVIEW JSA= MOVE AND RU HOT OIL AND PULL RODS
	7:00 10:00	3.00	MIRU	01		P		MOVE RIG AND EQUIP FROM BRO 3-11B4 SPOT IN RIG TEST DEAD MEN PUMP 60 BBLS DOWN CSG RU RIG
	10:00 14:00	4.00	INARTLT	03		P		LD POLISH ROD PU 2 RODS RIH TRY TO FISH S/V COULDNT FISH AFTER SEVERAL ATTEMPTS AND PRESS UP TO 1500 PSI POOH W/ PLUNGER (TOOL FOR S/V BROKEN)
	14:00 15:00	1.00	WLWORK	21		P		RIH W/ TUBING PUNCH PERF TUBING @ 7460' 5' ABOVE 4' PUP JNT POOH RD W/L FLUSH TUBING W/ 60 BBL KCL
	15:00 15:30	0.50	PRDHEQ	18		P		ND W/H B FLANGE GAULDED WHEN REMOVING
	15:30 17:30	2.00	WOR	16		X		WAIT ON SPEAR

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
	17:30 18:30	1.00	WOR	18		X		COULDNT GET B FLANGE OF TUB CUT TUBING WITH PIPE CUTTER PUSH IN SPEAR DROP DOWN TO 9000 OVER STRING WT TRY TO RELEASE ANCHOR DIDNT RELEASE DROP DOWN TO 5000 OVER TRY TO RELEASE ANCHOR SPEAR RELEASED TUBING DROPE CALL FOR TUBING AND OVERSHOT
	18:30 20:00	1.50	WOR	18		N		PU 1 JNT TUBING SPEAR TUB PULL OUT TO FISHING TOOL AND CUT JNT (ANCHOR WAS FREE) LD TOOLS CLOSE TIW VALVE W/ NIGHT CAP CLOSE CSG VALVES W/ BULL PLUG CLOSE AND LOCK PIPE RAMS AND HYDRILL SDFN
10/9/2016	6:00 7:00	1.00	PRDHEQ	18		P		TRAVEL TO LOC HSM, REVIEW JSA= TEST SCAN PULL TUB
	7:00 16:00	9.00	PRDHEQ	18		P		SIWP= TUB 40 PSI , CSG 110 PSI OPEN WELL TO FBT PU LAND TUB ON HNGR TEST FLANGE AND BOPS TO 4000 PSI 15 MIN W/ H/O MIRU TUBOSCOPE POOH SCAN TUB 226 YB, 1 RB PERF JNT PU4-1/8 BIT TALLEY AND PU 91 JNTS 2-3/8" X-OVER TALLEY AND RIH 2-7/8" TO 100' ABOVE LT EOT @ 8400' RU AND HANG POWER SWVL RU PUMP CLOSE TIW VALVE, CLOSE AND LOCK PIPE RAMS, CLOSE CSG VALVE W/ BULL PLUG SDFW
10/11/2016	7:00 8:00	1.00	WOR	18		P		TRAVEL TO LOC HSM REVIEW JSA=DRILLING, PUMP, HOT OIL
	8:00 10:30	2.50	WOR	18		P		RIH TAG @ 8674' CCR @ 8673' RU PWR SWVL EST REV CIRC W/ 675 BBL, PUMPING 7.5 BPM W/ 1-1/2 BPM RETURNS
	10:30 16:30	6.00	WOR	18		P		C/O AND DRILL 10' FILL TO CCR TO RUBBER FOUGHT BIT PLUGGING AND LOST CIRC GOT THRU CCR AND 20' CEM FELL FREE USED 28 LOADS OF KCL = 3600 BBLs CONTINUE TO RIH 3 JNTS TAG @ 8760'
	16:30 20:00	3.50	WOR	18		P		EST REV CIRC C/O 15' FILL TO CBP DRILL THRU PLUG IN 2 HRS W/ NO CHANGE IN PSI OR RETURNS CIRC CLEAN POOH TO ABOVE LINER TOP CLOSE AND LOCK PIPE RAMS CLOSE CSG VALVE W/ BULL PLUG CLOSE TIW W/ NIGHT CAP SDFN
10/12/2016	6:00 7:00	1.00	WOR	18		P		TRAVEL TO LOC HSM, REVIEW JSA WELL CONTROL, HOT OILER, LD TUB
	7:00 8:30	1.50	WOR	18		P		SIWP= 0 PSI, OPEN WELL RIH TAG AT 11302' PBTD @ 11312'
	8:30 12:00	3.50	WOR	18		P		POOH FLUSH TUB W/ HOT WTR TO REMOVE OIL TO HYDRO TEST, LD X-OVER 2-3/8 BIT AND BIT SUB
	12:00 19:00	7.00	WOR	18		P		MIRU HYDRO TESTER PU BHA RIH TESTING TUB TO 8500 PSI TAG @ 7983' W/ 5-3/4 NOGO WORK TUB TRYING TO RELEASE ANCHOR WORK TU UP AND DOWN GOT STUCK WORKED FREE SOOH W/ BHA
10/13/2016	6:00 7:00	1.00	WOR	18		P		TRAVEL TO LOC HSM REVIEW JSA=RUN TRIP TUBING PU TOOLS HOT OIL
	7:00 8:30	1.50	WOR	18		P		SIWP= 50 PSI TUB 70 PSI CSG, OPEN WELL CONTINUE TO POOH W/ PROD TUB LD BHA
	8:30 10:00	1.50	WOR	18		P		PU 7" CSG SCRAPER AND 6" BIT RIH TAG AT 7983'WORK TUB DOWN 1 JNT
	10:00 13:00	3.00	WOR	18		P		RU PWR SWVL PUMP 2 BPM DWN CSG, PUMP 1 BPM DOWN TUB, SWVL 2 JNS DWN WORKING SLOWLYFELL FREE SWVL 1 MORE JNT OBSTRUCTION FROM 7983' TO 8120' (140') CONTINUE TO RIH TAG LT AT 8505' RD PWR SWVL
	13:00 15:00	2.00	WOR	18		P		POOH W/ BIT AND SCRAPER

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (usft)	Operation
	15:00 19:00	4.00	WOR	18		P		PU BHA RIH PU PERF SUB AND HNGR SET TUBING ANCHOR @ 8232.23, SN @ 8368.55', EOT @ 8469.38', LAND TUBING ON HNGR RD FLOOR AND TUBING EQUIP ND HYDRILL AND BOPS B/O HNGR NU B- FLANGE LAND TUBING W/ 25000# TENSION ON TAC NU W/H RUN CAP STRING CHANGE HANDLING EQUIP FROM TUBING TO RODS CLOSE TIW W/ NIGHT CAP CLOSE CSG W/ BULL PLUG SDFN
10/14/2016	6:00 7:00	1.00	WOR	18		P		TRAVEL TO LOC HSM, REVIEW JSA= RUN RODS ,HOT OIL, PRESS TEST , SLIDE UNIT
	7:00 11:30	4.50	WOR	18		P		SIWP= 40 PSI CSG 50 PSI TUB OPEN WELL NU PUMP 60 BBL HOT WTR DOWN TUB PU PUMP RIH WITH RODS AS PER ROD STAR, SPACE OUT AND PU POLISH ROD SEAT PUMP AND PRESSURE TEST TO 1000 PSI RD RIG
	11:30 13:00	1.50	WOR	18		P		SLIDE UNIT HANG OFF STROKE PUMP TEST KICK OUT TURN WELL OVER TO PROD